101522513 Rec'd PCT/PTO 27 JAN 2005

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FIGURE 1 K

ctcagatgaa	tttgaaatat	gctattagtg	ctaagaatag	agcccgcact	gttgctggtg	60
tttccatact	tagtactatg	actggcagaa	tgtttcatca	aaaatgtttg	aaaagtatag	120
cagctacacg	tggtgttcct	gttgttatag	gcaccactaa	attttatggc	ggctgggatg	180
atatgttacg	tcgccttatt	aaagatgttg	acaatcctgt	acttatgggt	tgggattatc	240
ctaagtgtga						250

QMNLKYAISA	KNRARTVAGV	SILSTMTGRM	FHQKCLKSIA	ATRGVPVVIG	TTKFYGGWDD	60
MLRRLIKDVE	NPVLMGWDYP	KCE				84

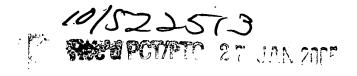
10/523575 Rec'd PCT/FTO 27 JAN 2005.

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2/40 FIGURE 3 (Page 1 of 2)

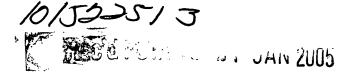
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	ctaatggttt					180
	ttaatggtta					240
aagggaactt	tactattgag	cacactatgg	tttaaaccac	catttctttc	tgattttatt .	300
	ttgctaaggt					360
gagtttcctg	ctataactat	aggtagtact	tttgtaaata	catcctatag	tgtggtagta	420
	ctactaattt					480
cagtatacta	tgtgcgatta	cccacatacg	atgtgtcatc	ctaatctggg	taataaacgc	540
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tatgatgtga	atgctgatta	tttgtattcc	catttttatc	aagaaggtgg	tactttttat	660
gcatatttta	cagacactgg	tgttgttact	aagtttctgt	ttcatgttta	tttaggcacg	720
	attattatgt					780
tgggttacac	ctctcacttt	taaacaatat	ttactcgctt	tcaatcaaga	tggtgttatt	840
	ttgattgtaa					900
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	gtatacctaa					1020
teggtgeett	ctccattaaa	ttgggaacgt	aagacctttt	caaattgtaa	ttttaatatg	1080
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	g gtatgtgttt					1200
	, acctacaaat					1260
	g ctacaagttg					1320
	a atccttctat					1380
	c ctgtaggtgt					1440
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					g aacttttatg	2040
					ttccgaacca	2100
					ttcacgacag	2160
					tgataatagt	2220



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acttctagtt	ctgttcaaac	atgtgatctc	acagtaggta	gtggttactg	gggggattac	2280
tctacacaaa	gacgaagtcg	tagaacgatt	accactggtt	atcggtttac	taattttgag	2340
ccatttactg	ttaatccagt	aaatgatagt	ttacaccctg	taggtggttt	gtatgaaatt	2400
caaatacctt	cagagtttac	tataggtaat	atggaggagt	ttattcaaac	aagatctcct	2460
aaagttacta	ttgattgtcc	tgtttttgtc	tgtggtgatt	atgcagcatg	taaatcacag	2520
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aaaattcaag	ctgttgttaa	tgcaaatgct	gaagctctta	ataacttatt	gcaacaactc	3180
tctaataaat	ttggtgctat	aagtgcttct	ttacaagaaa	trctatctag	acttgatgct	3240
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gagaaggtta	atgaatgtgt	caaaagccaa	tcatctagga	taaatttttg	tggtaatggt	3420
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tatgtcccta	ctaagtatgt	cactgcgaag	gttagtcccg	gtctgtgcat	ygcaggtgat	3540
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gaatattatg	taaaatggcc	ttggtatgta	tggcttttaa	ttggccttgc	tggcgtagct	3960
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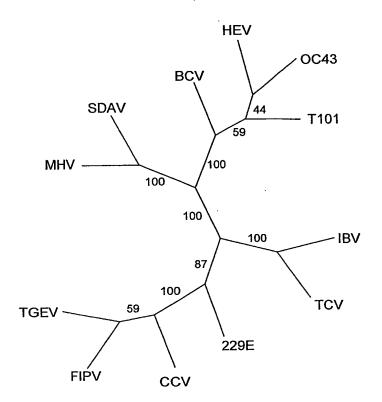
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MFLILLISLP	MARAUTONE	COMMICTADUD	TO DOTOTOU	UDURNOT CRY	VUI DDUVI NO	60
GE DIDIZONE	MALAVIGUER	CIIASIMDAD	IGAPSISIDV	ADALMGRALI	IAPPIKATPIAT	00
TLLLNGYYPT	SGSTYRNMAL	KGTLLLSTLW	FKPPFLSDFI	DGVFAKVKNT	KVIKDGVVYS	120
EFPAITIGST	FVNTSYSVVV	QPHTTNLDNK	LQGLLEISVC	QYTMCDYPHT	MCHPNLGNKR	180
IELWHWDTGV	VPCLYKRNFT	YDVNADYLYS	HFYQEGGTFY	AYFTDTGVVT	KFLFHVYLGT	240
VLSHYYVMPL	TCNSAMTLEY	WVTPLTFKQY	LLAFNQDGVI	FNAVDCKSDF	MSEIKCKTLS	300
IAPSTGVYEL	NGYTVQPIAD	VYRRIPNLPD	CNIEAWLNDK	SVPSPLNWER	KTFSNCNFNM	360
SSLMSFIQAD	SFTCNNIDAA	KIYGMCFFSI	TIDKFAIPNG	${\tt RKVDLQMGNL}$	GYLQSFNYRI	420
DTTATSCQLY	YNLPASNVSI	SRFNPSIWNR	RFGFTEQSVF	KPQPVGVFTD	HDVVYAQHCF	480
KAPTNFCPCK	LNGSLCVGSG	FGIDAGYKNS	GIGTCPAGTN	YLTCYNANQC	DCLCTPDPIL	540
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FANFILHGVN	SGTTCSTDLQ	KSNTDIILGV	CVNYDLYGIT	GQGIFVEVNA	TYYNSWQNLL	660
YDSNGNLYGF	RDYLTNRTFM	IRSCYSGRVS	AGFHSNSSEP	ALLFRNIKCN	YVFNNTLSRQ	720
LQPINYFDSY	LGCVVNADNS	TSSSVQTCDL	TVGSGYWGDY	STQRRSRRTI	TTGYRFTNFE	780
PFTVNPVNDS	LHPVGGLYEI	QIPSEFTIGN	MEEFIQTRSP	KVTIDCPVFV	CGDYAACKSQ	840
LVEYGSFCDN	INAILTEVNE	LLDTTQLQVA	NSLMNGVTLS	TKLKDGFNFN	VDDINFSPVL	900
GCLGSECNKV	SSRSAIEDLL	FSKVKLSDVG	FVDAYNNCTG	GAEIRDLICV	QSYNGIKVLP	960
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FNNALDAIQE	GFDATNSALV	KIQAVVNANA	EALNNLLQQL	SNKFGAISAS	LQEILSRLDA	1080
LEAQAQIDRL	INGRLTALNA	YVSQQLSDST	LVKFSAAQAM	EKVNECVKSQ	SSRINFCGNG	1140
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GSGYYYPEPI	TGNNVVVMST	CAVNYTKAPD	VMLNISTPNL	PDFKEELDQW	FKNQTLMAPD	1260
LSLDYINVTF	LDLQDEMNRL	QEAIKVLNHS	YINLKDIGTY	EXXAKMBMAA	WLLIGLAGVA	1320
MLVLLFFICC	CTGCGTSCFK	KCGGCCDDYT	GHQELVIKTS	HDD		1363
	EFPAITIGST IELWHWDTGV VLSHYYVMPL IAPSTGVYEL SSLMSFIQAD DTTATSCQLY KAPTNFCPCK SKSTGPYKCP FANFILHGVN YDSNGNLYGF LQPINYFDSY PFTVNPVNDS LVEYGSFCDN GCLGSECNKV PLLSENQISG FNNALDAIQE LEAQAQIDRL NHIISLVQNA GSGYYYPEPI LSLDYINVTF	EFPAITIGST FVNTSYSVVV IELWHWDTGV VPCLYKRNFT VLSHYYVMPL TCNSAMTLEY IAPSTGVYEL NGYTVQPIAD SSLMSFIQAD SFTCNNIDAA DTTATSCQLY YNLPASNVSI KAPTNFCPCK LNGSLCVGSG SKSTGPYKCP QTKYLVGIGE FANFILHGVN SGTTCSTDLQ YDSNGNLYGF RDYLTNRTFM LQPINYFDSY LGCVVNADNS PFTVNPVNDS LHPVGGLYEI LVEYGSFCDN INAILTEVNE GCLGSECNKV SSRSAIEDLL PLLSENQISG YTLAATFASL FNNALDAIQE GFDATNSALV LEAQAQIDRL INGRLTALNA NHIISLVQNA PYGLYFIHFS GSGYYYPEPI TGNNVVMST	EFPAITIGST FVNTSYSVVV QPHTTNLDNK IELWHWDTGV VPCLYKRNFT YDVNADYLYS VLSHYYVMPL TCNSAMTLEY WVTPLTFKQY IAPSTGVYEL NGYTVQPIAD VYRRIPNLPD SSLMSFIQAD SFTCNNIDAA KIYGMCFFSI DTTATSCQLY YNLPASNVSI SRFNPSIWNR KAPTNFCPCK LNGSLCVGSG FGIDAGYKNS SKSTGPYKCP QTKYLVGIGE HCSGLAIKSD FANFILHGVN SGTTCSTDLQ KSNTDILLGV YDSNGNLYGF RDYLTNRTFM IRSCYSGRVS LQPINYFDSY LGCVVNADNS TSSSVQTCDL PFTVNPVNDS LHPVGGLYEI QIPSEFTIGN LVEYGSFCDN INAILTEVNE LLDTTQLQVA GCLGSECNKV SSRSAIEDLL FSKVKLSDVG PLLSENQISG YTLAATFASL FPPWSAAAGV FNNALDAIQE GFDATNSALV KIQAVVNANA LEAQAQIDRL INGRLTALNA YVSQQLSDST NHIISLVQNA PYGLYFIHFS YVPTKYVTAK GSGYYYPEPI TGNNVVMST CAVNYTKAPD	EFPAITIGST FVNTSYSVVV QPHTTNLDNK LQGLLEISVC IELWHWDTGV VPCLYKRNFT YDVNADYLYS HFYQEGGTFY VLSHYYVMPL TCNSAMTLEY WVTPLTFKQY LLAFNQDGVI IAPSTGVYEL NGYTVQPIAD VYRRIPNLPD CNIEAWLNDK SSLMSFIQAD SFTCNNIDAA KIYGMCFFSI TIDKFAIPNG DTTATSCQLY YNLPASNVSI SRFNPSIWNR RFGFTEQSVF KAPTNFCPCK LNGSLCVGSG FGIDAGYKNS GIGTCPAGTN SKSTGPYKCP QTKYLVGIGE HCSGLAIKSD YCGGNPCTCQ FANFILHGVN SGTTCSTDLQ KSNTDILLGV CVNYDLYGIT YDSNGNLYGF RDYLTNRTFM IRSCYSGRVS AGFHSNSSEP LQPINYFDSY LGCVVNADNS TSSSVQTCDL TVGSGYWGDY PFTVNPVNDS LHPVGGLYEI QIPSEFTIGN MEEFIQTRSP LVEYGSFCDN INAILTEVNE LLDTTQLQVA NSLMNGVTLS GCLGSECNKV SSRSAIEDLL FSKVKLSDVG FVDAYNNCTG FLLSENQISG YTLAATFASL FPPWSAAAGV PFYLNVQYRI FNNALDAIQE GFDATNSALV KIQAVVNANA EALNNLLQQL LEAQAQIDRL INGRLTALNA YVSQQLSDST LVKFSAAQAM NHIISLVQNA PYGLYFIHFS YVPTKYVTAK VSPGLCIAGD GSGYYYPEPI TGNNVVVMST CAVNYTKAPD VMLNISTPNL LSLDYINVTF LDLQDEMNRL QEAIKVLNHS YINLKDIGTY	EFPAITIGSTFVNTSYSVVVQPHTTNLDNKLQGLLEISVCQYTMCDYPHTIELWHWDTGVVPCLYKRNFTYDVNADYLYSHFYQEGGTFYAYFTDTGVVTVLSHYYVMPLTCNSAMTLEYWVTPLTFKQYLLAFNQDGVIFNAVDCKSDFIAPSTGVYELNGYTVQPIADVYRRIPNLPDCNIEAWLNDKSVPSPLNWERSSLMSFIQADSFTCNNIDAAKIYGMCFFSITIDKFAIPNGRKVDLQMGNLDTTATSCQLYYNLPASNVSISRFNPSIWNRRFGFTEQSVFKPQPVGVFTDKAPTNFCPCKLNGSLCVGSGFGIDAGYKNSGIGTCPAGTNYLTCYNANQCSKSTGPYKCPQTKYLVGIGEHCSGLAIKSDYCGGNPCTCQPKAFLGWSVDFANFILHGVNSGTTCSTDLQKSNTDILLGVCVNYDLYGITGQGIFVEVNAYDSNGNLYGFRDYLTNRTFMIRSCYSGRVSAGFHSNSSEPALLFRNIKCNLQPINYFDSYLGCVVNADNSTSSSVQTCDLTVGSGYWGDYSTQRRSRRTIPFTVNPVNDSLHPVGGLYEIQIPSEFTIGNMEEFIQTRSPKVTIDCPVFVLVEYGSFCDNINAILTEVNELLDTTQLQVANSLMNGVTLSTKLKDGFNFNGCLGSECNKVSSRSAIEDLLFSKVKLSDVGFVDAYNNCTGGAEIRDLICVPLLSENQISGYTLAATFASLFPPWSAAAGVPFYLNVQYRINGIGVTMDVLFNNALDAIQEGFDATNSALVKIQAVVNANAEALNNLLQQLSNKFGAISASNHIISLVQNAPYGLYFIHFSYVPTKYVTAKVSPGLCIAGDRGIAPKSGYFGSGYYYPEPITGNNVVMSTCAVNYTKAPDVMLNISTPNLPDFKEELDQW	EFPAITIGST FVNTSYSVVV QPHTTNLDNK LQGLLEISVC QYTMCDYPHT MCHPNLGNKR IELWHWDTGV VPCLYKRNFT YDVNADYLYS HFYQEGGTFY AYFTDTGVVT KFLFHVYLGT VLSHYYMPL TCNSAMTLEY WVTPLTFKQY LLAFNQDGVI FNAVDCKSDF MSEIKCKTLS IAPSTGVYEL NGYTVQPIAD VYRRIPNLPD CNIEAWLNDK SVPSPLNWER KTFSNCNFNM SSLMSFIQAD SFTCNNIDAA KIYGMCFFSI TIDKFAIPNG RKVDLQMGNL GYLQSFNYRI DTTATSCQLY YNLPASNVSI SRFNPSIWNR RFGFTEQSVF KPQPVGVFTD HDVVYAQHCF KAPTNFCPCK LNGSLCVGSG FGIDAGYKNS GIGTCPAGTN YLTCYNANQC DCLCTPDPIL KKSTGPYKCP QTKYLVGIGE HCSGLAIKSD YCGGNPCTCQ PKAFLGWSU SCLQGDRCNI FANFILHGVN SGTTCSTDLQ KSNTDILLGV CVNYDLYGIT GQGIFVEVNA TYYNSWQNLL YDSNGNLYGF RDYLTNRTFM IRSCYSGRVS AGFHSNSSEP ALLFRNIKCN YVFNNTLSRQ LOPINYFDSY LGCVVNADNS TSSSVQTCDL TVGSGYWGDY STQRSRRTI TTGYRFTNFE

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T101	CTCAGATGAATTTGAAATATGCTATTAGTGCTAAGAATAGAGCCCGCACTGTTGCTGGTG
BCV	CTCAAATGAATTTGAAATATGCTATTAGTGCTAAGAATAGAGCCCGCACTGTTGCTGGTG
OC43	CTCAAATGAATTTGAAATATGCTATTAGTGCTAAGAATAGAGCCCGCACTGTTGCTGGTG
HEV	CTCAAATGAATTTGAAATATGCTATTAGTGCCAAGAATAGAGCCCGCACTGTTGCTGGTG
CCV	CTCAGATGAATTTGAAATATGCTATTTCTGGAAAGGCTAGAGCTCGTACAGTAGGAGGAG
001	**** ************* ** ** *** *** ** **
т101	TTTCCATACTTAGTACTATGACTGGCAGAATGTTTCATCAAAAATGTTTGAAAAGTATAG
BCV	TTTCCATACTCAGTACTATGACTGGCAGAATGTTTCATCAAAAATGTTTGAAAAGTATAG
OC43	TTTCCATACTTAGTACTATGACTGGCAGAATGTTTCATCAAAAATGTTTGAAAAGTATAG
HEV	TTTCCATACTTAGTACTATGACTGGCAGAATGTTTCATCAAAAATGCTTGAAAAGTATAG
CCA	TTTCACTTCTTTCTACCATGACTACGAGACAATACCACCAGAAGCATTTGAAGTCAATTG
CC V	**** * ** *** *** *** * * * * * * * * *
т101	CAGCTACACGTGGTGTTCCTGTTGTTATAGGCACCACTAAATTTTATGGCGGCTGGGATG
BCV	CAGCTACACGTGGTGTTCCTGTTGTTATAGGCACCACTAAGTTTTATGGCGGCTGGGATG
OC43	
HEV	CAGCTACACGTGGCGTTCCTGTGGTTATAGGCACCACTAAATTTTATGGCGGCTGGGATG
CCV	CTGCAACACGCAATGCCACTGTGGTTATTGGCTCAACCAAGTTTTATGGTGGTTGGGATA
CCV	* ** ****
т101	ATATGTTACGTCGCCTTATTAAAGATGTTGACAATCCTGTACTTATGGGTTGGGATTATC
BCV	ATATGTTACGTCGCCTTATTAAAGATGTTGATAATCCTGTACTTATGGGTTGGGATTATC
OC43	
HEV	ATATGTTACGCCGCCTTATTAAAGATGTTGATAATCCTGTACTTATGGGTTGGGATTATC
CCV	ACATGCTTAAAAATTTAATGCGTGATGTTGATAATGGTTGTTTGATGGGATGGGACTATC
	* *** *
T101	CTAAGTGTGA
BCV	CTAAGTGTGA
	CTAAGTGTGA
HEV	CAAAGTGTGA
CCV	CTAAGTGTGA
CCV	- 1+1+1+1

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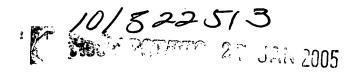
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protHCVpoly	MNLKYAISAKNRARTVAGVSILSTMTGRMFHQKCLKSIAATR
protHEVpoly	MNLKYAISAKNRARTVAGVSILSTMTGRMFHQKCLKSIAATR
protBCVpoly	MNLKYAISAKNRARTVAGVSILSTMTGRMFHQKCLKSIAATR
protCRCVpol	QMNLKYAISAKNRARTVAGVSILSTMTGRMFHQKCLKSIAATR
protCECVpol	MTQMNLKYAISGKARARTVGGVSLLSTMTTRQYHQKHLKSIAATR

protHCVpoly	GVPVVIGTTKFYGGWDDMLRRLIKDVDNPVLMGWDYPKC
protHEVpoly	GVPVVIGTTKFYGGWDDMLRRLIKDVDNPVLMGWDYPKC
protBCVpoly	GVPVVIGTTKFYGGWDDMLRRLIKDVDNPVLMGWDYPKC
protCRCVpol	GVPVVIGTTKFYGGWDDMLRRLIKDVENPVLMGWDYPKC
protCECVpol	NATVVIGSTKFYGGWDNMLKNLMRDVDNGCLMGWDYPKC
L	*********



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FIGURE 8 (Page 1 of 9)

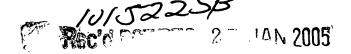
CRCVspike	ATTTCCTTACCAATG
CECVspike	ATGATTGTGCTCGTAACTTGCATTTTATTGTTATGTTCATACCACACTGCTTCGAGTACG
	** ** *** **
CRCVspike	${\tt GCTTTTGCTG-TTATAGGAGATTTAAAGTGTACTACGGTTTC-CATCAATGATGTTGACA}$
CECVspike	TCAAATAATGATTGTAGACAAGTTAACGTAACACAATTAGATGGCAATGAAAACCTCA
	* * ** ** * * * * * ** * * * * * * * * *
CRCVspike	${\tt CCGGTG-CTCCTTCTATTAGCACTGATGTTGTCGATGTTACTAATGGTTTAGGTACTTAT}$
CECVspike	${\tt TTAGAGACTTTTGTTTCAAAACTT-TAAAGAAGAAGGAACTGTAGTTGTTGGTGGTTAC}$
	* * ** ** * * * ** * * * * * * * * * * *
CRCVspike	TATGTTTTAGATCGTGTGTATTTAAATACTACATTGTTGCTTAATGGTTA
CECVspike	TACCCTACAGAGGTTTGGTATAACTGTTCTAGAACAGCAACAACTACTGCCTA-TGAGTA
	** * *** * ** * * * * * * * * * * * * *
CRCVspike	TTATCCTACTTCAGGTTCTACATATCGTAATATGGCA-CTGAAGGGAACTTTACTATTGA
CECVspike	TTTCAGTAATATACACGCATTCTATTTTGATATGGAAGCCATGGAGAATAGTACTGGTAA
	** ** * * * *** * **** * * * * * * * * *
GDGW and has	
CRCVspike	-GCACACTATGG-TTTAAACCACCATTTCTTTCTGATTTTATTGATGGTGTTTTTTGCTAA
CECVspike	TGCACGTGGTAAACCTTTATTATTTCATGTTCATGGTGAGCCTGTTAGTGTCATCATATA
· CRCVspike	GGTAAAAAATACCAAGGTTATTAAAGATGGTGTAGTGTA
CECVspike	CATATCTTATAGAGATGATGTGCAACATAGGCCACTTTTAAAACACGGATTAGTGTGCAT
CHOVEPING	** *** * * * * * * * * * * * * * * * *
CRCVspike	AACTATAGGTAGTACTTTTGTA-AATACATCCTATAGTGTGGTAGTACAACCACATAC
CECVspike	AACTGAAAGTCGCAACATTGACTATAACAGTTTCACCAGTA-GCCAGTGGAATTCCATAT
•	**** * * * * * * * * * * * * * * * * * *
CRCVspike	-TACTAATTTAGATAATAAATTACAAGGTCTCTTAGAGATCTCTGTTTGCCAGTATACTA
CECVspike	GTACGGGTAATGACAGAAAAATTCCTT-TCTCTGTCATACCCACGGACAATGGAACAAAA
-	*** * ** * *** * **** * * * * * * * * *

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FIGURE 8 (Page 2 of 9)

CRCVspike	-TGTGCGATTACCCACATA-CGATGTGTC-ATCCTAATCTGGGT-AATAAACGCATAG
CECVspike	ATTTATGGTCTTGAGTGGAATGATGAATTTGTTACAGCGTACATTAGTGGTCGTTCTTAT
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	AACTATGGCATTGGGATACAGGTGTTGTTCCCTGTT-TATATAAGCGTAATTTCACATAT
CECVspike	${\tt AATTGGAACATCAATAATAATTGGTTTAACAATGTCACGCTTCTGTATAGTCGCTCAAGC}$
	** * *** * * *** * * * * * * * * *
CRCVspike	GATGTGA-ATGCTGATTATTTGTATTCCCATTTTTATCAAGAAGGTGGTACTTTTTA
CECVspike	${\tt ACTGCCACATGGCAACACAGTGC-TGCATACGTTTACCAAGGTGTTTCTAACTTCACTTA}$
	** * *** *
CRCVspike	${\tt TGCATATTTTACAGACACTGGTGTTGTTACTAAGTTTCTGTTTCATGTTTAT-TTAGGCA}$
CECVspike	TTACAAGTTAAATAACACCAATGGTCTAAAAACCTATGAATTATGTGAAGATTATGAA
•	* * * * * *** ** * * * * * * * * * * * *
CRCVspike	CGGTGCTTTCACATTATTA-TGTCATGCCCTTGACTTGTAATAGTGCTATGACTTTA
CECVspike	TATTGCACTGGCTACGCCACTAACATCTTTGCCCCAACTGTGGGAGGTTACATACCTGAT
CRCVspike	GAATACTGGGTTACACCTCTCACTTTTAAACAATATTTACTCGCTTTCAATCAA
CRCVspike CECVspike	${\tt GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA}$
-	
CECVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * *** * *** **** * ***
CECVspike CRCVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * * ** * * ** * ** ** ** ** ** ATGGTGTTATTTTTAATGCTGTTGATTGTAAGAGTGATTTTATGAGTGAG
CECVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * *** * *** **** * ***
CECVspike CRCVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * * ** * * ** * ** ** ** ** ** ATGGTGTTATTTTTAATGCTGTTGATTGTAAGAGTGATTTTATGAGTGAG
CECVspike CRCVspike CECVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * * ** * * * * * * * * * * * * *
CECVspike CRCVspike CECVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * * ** * * * * * * * * * * * * *
CECVspike CRCVspike CECVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * **
CECVspike CRCVspike CECVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * * ** * * * * * * * * * * * * *
CECVspike CECVspike CECVspike CRCVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * * ** * * * * * * * * * * * * *
CECVspike CRCVspike CECVspike CRCVspike CECVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * **
CECVspike CECVspike CECVspike CRCVspike	GGATTTAGTTTTAACAATTGGTTTTTGCTTACAAACAGCTCCACTTTTGTTAGTGGCAGA * ** * * ** * * * * * * * * * * * * *



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FIGURE 8 (Page 3 of 9)

CRCVspike	CTTGGCTTAATGATAAGT-CGGTGCCTTCTCCATTAAATTGGGAACGTAAGACCTTTTCA
CECVspike	ATGGGTGCTACAGTATTTTCACTGAATACAACAGGTGGTTGCATTCTTGAGATTTCTT
	* ** * * * * * * * * * * * * * * * * * *
CRCVspike	${\tt AATTGTAATTTTAATATGAGCAGCCTGATGTCTTTTATCCAGGCTGACTCGTTTACTTGT}$
CECVspike	-GTTATAATGATATAGTGAGCGAGTCAAGTTTCTACAGTTATGGTGAAATTCCCTTC
	** ***
CRCVspike	AATAATATTGATGCTGCTAAGATATACGGTATGTGTTTTTTCAGCATAACTATAGATA
CECVspike	GGCGTAACTGATGG-ACCGCGTTAT-TGTTATGTCCTCTATAATGGCACAGCTCTTAAGT
	* ****
CRCVspike	AGTTTGCTATACCCAATGGTAGGAAGGTTGACCTACAAATGGGCAATTTGGGCTATT
CECVspike	ATTTCGGCACATTACCCCCTAGTGTCAAGGAAATTGCTATTAG-TAAGTGGGGCCAAT
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	TGCAGTCTTTTAACTATAGAATTGATACTACTGCTACAAGTTGTCAGTTGTATTATAATT
CECVspike	TTTATATTAATGGTTACAATTTCTTTAGCACTTTTCCTATTGATTG
CECVSPIRE	* * * * * * * * * * * * * * * * * * *
CRCVspike	TACCTGCTAGTAATGTTTCTATTAGCAGGTTTAATCCTTCTATTTGGAATAGGAGATT
CECVspike	TAACCACTGGTGATAGTGGAGCATTTTGGACAATTGCTTACACATCGTACACTGAAGCAT
	** * ** ** * * * * * * * * * * * * * * *
CRCVspike	TGGTTTTA-CAGAACAATCTGTTTTTAAGCCT-CAACCTGTAGGTGTTTTTTACTGATCAT
CECVspike	TAGTACAAGTTGAAAACAGCCATTAAAAAGGTGACGTATTGTAACAGTCAC-ATTAAT
CECVSPIRE	TAGTACAAGTTGAAAAACACCATTAAAAAGGTGACGTATTGTAACAGTCAC-ATTAAT
CRCVspike	GATGTTGTTTATGCACAACATTGTTTTAAAGCTCCCACAAATTTCTGTCCGTGTA
CECVspike	AACATCAAATGTTCTCAACTTACTGCTAATTTGCAAAATGGCTTTTATCCTGTTGCTTCA
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	AATTGAATGGGTCTTTGTGTGTAGGTAGTGGTTTTGGTATAGATGCTGGTTATAAA
CECVspike	AGTGAAGTTGGTCTTGTCAATAAGAGTGTTTGTGTTACCTACC
CECASPIKE	* * * * *****

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FIGURE 8 (Page 4 of 9)

CRCVspike	${\tt AATAGTGGTATAGGCACTTGTCCTGCAGGTACTAATTATTTAACTTGTTATAATGCTAAC}$
CECVspike	AGTGTTAATATAACTATTGATCTTGGTATGAAGCGTAGTGGTTATGGTCAACCCA
	* * * *** * * * * * * * * * * * * * * *
CRCVspike	${\tt CAATGTGATTGTTGTGCACTCCAGACCCTATTTTATCTAAATCTACAGGGCCTTA-T}$
CECVspike	TAGCCTCAACACTAAGTAACATCACACTACCAATGCAGGATAATAACACCGATGTGTACT
	* * * * * ** ** ** ** ** ** ** ** **
CRCVspike	AAGTGCCCCCAAACTAAATACTTAGTTGGCATAGGTGAGCACTGTTCTGGTCTTGCTATT
CECVspike	GTATTCGTTCTAACCAATT-CTCAGTTTATGTTCACTCCACTTGCAAAAGTTCTTTATGG
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	AAAAGTGATTATTGTGGAGGCAATCCTTGTACTTGCCAACCAA
CECVspike	GACAACAATTTTAATCAAGATTGCACAGATGTTTTATATGCCACAGCTGTTATAAAAACT
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	GGTCTGTGGACTCTTGTTTACAAGGGGATAGGTGTAATATTTTTGCTAA-TTTTAT
CECVspike	GGTACTTGCCCCTTCTCATTTGATAAATTGAATAATTACTTAACTTTTAACAAGCTTTGT
	*** ** * *** *** * * *** * * **** **
CRCVspike	TTTGCATGGTGTTAATAGTGGTACTACTTGTTCTACTGATT-TACAAAAATC
CECVspike	$\tt TTGTCGTTGAATCCTACTGGTGCCAACTGTAAGTTTGATGTTGCTGCCCGTACAAGAACC$
	** * * * * * * * * * * * * * * * * * * *
CRCVspike	AAACACAGACATAATTCTTGGTGTTTGTGTTAATTATGATCTTTATGGTATTACAGGCCA
CECVspike	AA-TGAGCAGGTTGTTAGAAGTTTATATGTAATATATGAAGAAGGAGACAACATAGTGGG
	**
CRCVspike	AGGTATTTTTGTTGAGGTTAATGCGACTTATTATAATAGTTGGCAGAACCTTTTAT
CECVspike	TGTACCGTCTGATAATAGTGGTCTTCACGATTTGTCAGTGTTACACTTAGACTCCTGTAC
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	ATGATTCTAATGGTAATCTCTATGGTTTTAGGGACTACTTAACAAACAGA-ACTTT
CRCVspike CECVspike	ATGATTCTAATGGTAATCTCTATGGTTTTAGGGACTACTTAACAAACAGA-ACTTTT A-GATTACAATATATATGGTAGAACTGGTGTT-GGTATTATTAGACAAACTAACAGCACA

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FIGURE 8 (Page 5 of 9)

CRCVspike	ATGATTCGTAGTTGCTATAGCG-GTCGTGTTTCAGCGGGCTTTCACTCTAACTCTTC
CECVspike	ATACTTAGTGGCTTACATTATACATCACTATCAGGTGATTTATTAGGTTTTAAAAATGTT
-	** **** * * * * * * * * * * * * *
CRCVspike	CGAACCAGCATTG-CTATTTCGGAATATTAAATGCAATTACGTTTTTAATAATACTCTTT
CECVspike	AGTGATGGTGTTGTCTATTCTGTGACACCATGTGATGTAAGCGCACAAGCGGCTGTTATT
	* * *** ***** * * * * * * * * * * * * *
CRCVspike	CACGACAGCTGCAACCTATTAACTATTTTGATAGTTATCTTGGTTGTTGTCAA
CECVspike	GATGGGGCCATAGTTGGAGC-TATGACTTCCATTAATAGTGAACT-GTTAGGTCTAACAC
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	TGCTGATAATAGTACTTCTAGTTCTGTTCAAACATGTGATCTCACAGTAGGTAGT
CECVspike	ATTGGACAACAACACCAAATTTTTATTACTACTCTA-TATATAATACAACAAATGAG
	** ** * ** ** ** ** ** ** ** ** * *
CRCVspike	GGTTACTGGGGGGATTACTCTACACAAAGACGAAGTCGTAGAACGATTACCACTGG
CECVspike	AGA-ACTCGTGGCACTGCAATCGACAGTAACGATGTAGATTGTGAACCTATCATAACCTA
	* *** * ** * * * * *** *** ** ** * * * *
CRCVspike	TTATCGGTTTACTAATTTTGAGCCATTTACTGTTAATCCAGTAAATGATAG
CECVspike	TTCTAACATAGGTGTTTGTAAAAATGGTGCGTTGGTTTTTATTAACGTCACACATTCTGA
	** ** *** * * ** * * * * * * * * * * * *
CRCVspike	TTTACACCCTGTAGGTGGTTTGTATGAAAT-TCA-AATACCTTCAGAGTTTACTATAG
CECVspike	TGGAGATGTT-CAACCAATTAGCACTGGCAATGTCACGATACCCACAAACTTTACCATAT
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	GTAATATGGAGGAGTTTATTCAAACAAGATCTCCTAAAGTTACTATTGATTG
CECVspike	CTGTGCAAGTTGAATACATCCAGGTTTACACTACACCGGTGTCAATAGATTGTTCTAGAT
	* * ** * ** ** ** ** ** ** *
CRCVspike	TTGTCTGTGGTGATTATGCAGCATGTAAATCACAGTTGGTTG
CECVspike	ACGTTTGTAATGGTAACCCTAGATGTAATAAATTGTTAACACAATATGTTTCTGCATGTC
	** *** ** * * ***** * *** **** * ***

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FIGURE 8 (Page 6 of 9)

CRCVspike	ACAATATTAATGCTATACTCACAG-AAGTAAATGAACTACTTGACACTA
CECVspike	AAACTATTGAGCAAGCGCTTGCAATGAGTGCCAGCCTTGAAAACATGGAAGTTGATTCCA
	* * *** * * * * * * * * * * * * * * * *
CRCVspike	${\tt CACAGTTGCAAGTAGCTAATAGTTTAATGAATGGTGTCACTCTTAGCACTAAGCTTAAAG}$
CECVspike	TGTTGTTTGTTTCAGAAAATGCCCTTA-AATTGGCATCTGTTGAGGCGTTCAATAGTACA

CRCVspike	ATGGCTTTAATTTCAATGTAGATGACATCAATTTTTCCCCTGTATTAGGTTGT
CECVspike	${\tt GAACATTTAGATCCTATTTACAAAGAATGGCCTAACATAGGTGGTTCTTGGCTAGGAGGT}$
	*** * * * * * * * * * * * * * * * * * *
	•
CRCVspike	TTAGGAAGCGAATGTAATAA-AGTTTCCAGTAGATCTGCTATAGAGGAT
CECVspike	$\tt CTAAAAGACATACTTCCGTCCCATAATAGCAAACGTAAGTATCGTTCTGCTATAGAAGAC$
	** * * * **** * **** * ******* **
CRCVspike	TTACTTTTTCTAAAGTAAAGTTATCTGATGTTGGTTTTGTTGATGCTTATAATAAT
CECVspike	$\tt TTGCTTTTTGATAAAGTTGTAACTTCTGGTCTAGGTACAGTTGATGAAGATTATAAACGT$
	** ***** ***** **** * *** ***** ***** *
CRCVspike	${\tt TGTACTGGAGGTGCCGAAATTAGGGACCTCATTTGTGTGCAAAGTTATAATGGTATCAAA}$
CECVspike	TGTACAGGTGGTTATGACATAGCTGACTTAGTTTGTGCACAATATTACAATGGCATCATG
	**** ** ** ** ** ** ** *** *** *** ***
CRCVspike	GTGTTGCCTC-CACTGCTCTCAGAAAATCAGATCAGTGGATACACTTTGGCTGCCACCTT
CECVspike	GTTCTACCTGGTGTTGCTAAT-GATGACAAGATGACTATGTACACAGCCTCTCTTGCAGG
	** * ***
CRCVspike	TGCTAGTCTGTTTCCTCC-TTGGTCAGCAGCAGCAGGCGTACCATTTTATTTAAATGT
CECVspike	$\tt TGGTATAGCATTAGGTGCACTAGGTGGTGGCGCCGTGGCTATACCTTTTGCAGTAGCAGT$
	** **
CRCVspike	TCAGTATCGTATTAATGGTATTGGTGTTACCATGGATGTGCTAACTCAAAATCAAAAGCT
CECVspike	TCAGGCTAGACTTAATTATGTTGCTCTACAAACTGATGTATTGAACAAAAACCAGCAGAT



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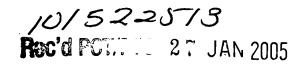
FIGURE 8 (Page 7 of 9)

CRCVspike	TATTTCTAATGCATTTAACAATGCCCTTGATGCTATTCAGGAAGGGTT
CECVspike	${\tt CCTGGCTAATGCTTTCAACCAAGCTATTGGTAACATTACACAGGCATTTGGTAAGGTTAA}$
	* ***** ** ** * ** * ** ***
CRCVspike	TGATGCTATTAGTTAAAAT
CECVspike	TGATGCTATACATCAAACATCACAAGGTCTTGCCACTGTTGCTAAAGCATTGGCAAAAGT

CRCVspike	TCAAGCTGTTGTTAATGCAAATGCTGAAGCTCTTAATAACTTATTGCAACAACTCTCTAA
CECVspike	GCAAGATGTTGTTAACACACAAGGGCAAGCTTTAAGCCACCTAACAGTACAACTGCAAAA
	*** ***** ** * * * * * * * * * * * * * *
CRCVspike	${\tt TAAATTTGGTGCTATAAGTGCTTCTTTACAAGAAATTCTATCTA$
CECVspike	${\tt TAGCTTCCAAGCCATTAGTAGTTCTATTAGTGACATTTATAATAGGCTTGATGAACTGAG}$
	** ** ** *** *** * ** *** *** **
CRCVspike	AGCGCAAGCTCAGATAGACAGACTTATCAATGGGCGTCTTACCGCTCTTAATGCTTATGT
CECVspike	TGCTGATGCACAAGTTGATAGGCTGATTACAGGTAGACTTACAGCACTTAATGCATTTGT
	** * ** ** * * ** ** ** * * * * * * ****
CRCVspike	TTCTCAACAGCTTAGTGATTCTACACTAGTAAAATTTAGTGCAGCACAAGCTATGGAGAA
CECVspike	ATCTCAGACTCTAACCAGACAAGCGGAGGTTAGGGCTAGTAGACAACTTGCCAAAGACAA

CRCVspike	GGTTAATGAATGTCCAAAAGCCAATCATCTAGGATAAATTTTTGTGGTAATGGTAATCA
CECVspike	${\tt GGTTAATGAATGTGTTAGGTCTCAGTCTCAGAGATTTGGATTTTGTGGTAATGGTACACA}$

CRCVspike	TATTATATCATTAGTGCAGAATGCTCCATATGGTTTGTATTTTATCCACTTTA-GCTATG
CECVspike	TTTGTTTTCACTTGCAAATGCAGCACCAAATGGCATGGTTTTCTTTC
	* * * * * * * * * * * * * * * * * * * *
CRCVspike	TCCCTACTAAGTATGTCACTGCGAAGGTTAGTCCCGGTCTGTGCATYGCAGGTGATAGAG
CECVspike	TACCAACAGCTTATGAAACTGTAACAGCTTGGTCAGGTATTTGTGCTTCAGATGGCGATC
•	* ** ** *** *** * * * * * * * * * * *



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FIGURE 8 (Page 8 of 9)

CRCVspike	GTATAGCTCCTAAGAGTGGTTATTTTGTTAATGTAAATAACA
CECVspike	GCACTTTTGGACTTGTCGTTAAAGATGTTCAGTTGACGTTGTTTCGTAATCTAGATGACA
•	* * * * * * * * * * * * * * * * * * * *
CRCVspike	. CTTGGATGTTCACTGGTAGTGGTTATTACTACCCTGAACCTATAACTGGAAATAATGTGG
CECVspike	AGTTCTATTTGACTCCCAGAACTATGTATCAGCCTAGAGCTGCAACTAGTTCTGATTTTG
•	* ** *** ** * ** * *** * *** * * * * * *
CRCVspike	TTGTTATGAGTACCTGTGCTGTTAACTATACTAAAGCACCGGATGTAATGCTGAACATTT
CECVspike	TTCAGATTGAGGGGTGCGACGTGTTGTTTGTCAATGCAACTGTAATTGACTTGCCTAGTA
	** ** ** ** ** ** ** ** **
CRCVspike	CAACACCCAACCTCCCTGATTTTAAGGAAGAGTTGGATCAATGGTTTAAAAAC
CECVspike	TTATACCTGACTATATCGACATTAATCAGACTGTTCAAGACATATTAGAAAACTACAGAC
	* *** ** ** ** ** ** ** ** **
CRCVspike	$\overset{\cdot}{\text{CAAACATTAATGGCACCAGATTTGTCACTTGATTATATAAATGTTACATTCTTGGACCTA}}$
CECVspike	CAAAC-TGGACTGTACCTGAATTGACAATTGACATTTTTAACGCAACCTATTTAAATCTG
	**** * * * *** ** ** ** *** * * * * * *
CRCVspike	CAAGATGAAATGAATAGGTTACAGGAGGCAATAAAAGTTTTAAATCATAGC
CECVspike	ACTGGTGAAATTGATGACTTAGAATTTAGGTCAGAAAAGCTACATAACACCACAGTAGAG
	* ***** ** *** *** * **** * *
CRCVspike	TACATCAATCTCAAGGACATTGGTACA
CECVspike	CTTGCCATTCTCATTGACAATATTAACAATACATTAGTCAATCTTGAATGGCTCAATAGA
	**** **** * * * *
CRCVspike	TATGAATATTATGTAAAATGGCCTTGGTATGTATGGCTTTTAATTGGCCTTGCTGGCGTA
CECVspike	ATTGAAACTTATGTGAAATGGCCTTGGTATGTGTGGCTACTAATAGGC-TTAGTAGTAGT
	**** ***** ************ **** *** ** * *
CRCVspike	GCTATGCTTGTT-TTACTATTCTTCATATGCTGTTGTACAGGATGTGGGACTAGTTG
CECVspike	GTTTTGCATACCGCTATTGCTATTTTGCTGTTGTAGTACAGGTTGCTGTGGATGCATAGG
	* * *** *



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FIGURE 8 (Page 9 of 9)

CRCVspike	TTTT	AAGA	AAT	GCGGI	GGTT	GTT	GTG	ATG	ATT	ATAC:	TGGACA-	-TCA	GGA	STTAG	TAAT	rc
CECVspike	TTGT	rtgg	GAA	STTGI	TGTC	CATT	CTA	TTT	GTA	GTAG	AAGACAA	TTTG	AAA	ATTAC	GAAC	CC
	** *	*	*	* **	**	**	*	*	*	**	****	*	*	***	* *	*
CRCVspike	AA	AA	CGT	CACAI	GAC	ACT	-AA									
CECVspike	AATT	GAAA	AAG'	rgcai	GTC	CACT	AAA									
	**	**		***	* *	***	**									

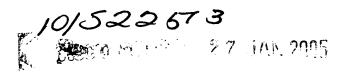


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FIGURE 9 (Page 1 of 12)

BCVspike	ATGTTTTGATACTTTTAATTTCCTTACCAATGGCTCTTGCTGTTATAG
HCVspike	ATGTTTTTGATACTTTTAATTTCCTTACCAACGGCTTTTGCTGTTATAG
CRCVspike	ATGTTTTTGATACTTTTAATTTCCTTACCAATGGCTTTTGCTGTTATAG
HEVspike	ATGTTTTTATACTTTTAATCACCCTGCCTTCTGTTTTTGCAGTTATAG
	****** ******* ** * * * * * * * * * * *
BCVspike	${\tt GAGATTTAAAGTGTACTACGGTTTCCATTAATGATGTTGACACCGGTGTTCCTTCTGTTA}$
HCVspike	${\tt GAGATTTAAAGTGTACTACGGTTTCCATTAATGATATTGACACCGGTGCTCCTTCTATTA}$
CRCVspike	${\tt GAGATTTAAAGTGTACTACGGTTTCCATCAATGATGTTGACACCGGTGCTCCTTCTATTA}$
HEVspike	${\tt GGGATTTAAAGTGTAATACTTCATCAATTAATGACGTTGACACTGGTGTGCCATCTATTA}$
	* ****** *** ** ** ** *** *** *** *** ** ***
BCVspike	${\tt GCACTGATACTGTCGATGTTACTAATGGTTTAGGTACTTATTATGTTTTAGATCGTGTGT}$
HCVspike	${\tt GCACTGATATTGTCGATGTTACTAATGGTTTAGGTACTTATTATGTTTTAGATCGTGTGT}$
CRCVspike	${\tt GCACTGATGTTGTCGATGTTACTAATGGTTTAGGTACTTATTATGTTTTAGATCGTGTGT}$
HEVspike	${\tt GCTCTGAAGTTGTTGATGTCACTAATGGTTTGGGGACTTTCTATGTTTTAGATCGTGTCT}$
	** **** *** **** ******* ** *** *******
BCVspike	${\tt ATTTAAATACTACGTTGTTGCTTAATGGTTACTACCCTACTTCAGGTTCTACATATCGTA}$
HCVspike	${\tt ATTTAAATACTACGTTGTTGCTTAATGGTTACTACCCTACTTCAGGTTCTACATATCGTA}$
CRCVspike	${\tt ATTTAAATACTACATTGTTGCTTAATGGTTATTATCCTACTTCAGGTTCTACATATCGTA}$
HEVspike	${\tt ATTTAAATACCACATTGTTGCTCAATGGTTATTACCCAATTTCAGGTGCTACATTTCGTA}$
	******* ** ****** ** ****** ** ** ** **
BCVspike	${\tt ATATGGCACTGAAGGGAACTTTACTATTGAGCACACTATGGTTTAAACCACCTTTTCTTT}$
HCVspike	${\tt ATATGGCACTGAAGGGAACTTTACTATTGAGCAGACTATGGTTTAAACCACCTTTTCTTT}$
CRCVspike	${\tt ATATGGCACTGAAGGGAACTTTACTATTGAGCACACTATGGTTTAAACCACCATTTCTTT}$
HEVspike	${\tt ATGTGGCTCTGAAAGGAACTCGATTATTGAGCACCTTGTGGTTTAAGCCGCCTTTTTTAT}$
	** **** **** ***** * ******** * *******
BCVspike	CTGATTTTATTAATGGTATTTTTGCTAAGGTCAAAAATACCAAGGTTATTAAAAATGGTG
HCVspike	$\tt CTGATTTTATTAATGGTATTTTTGCTAAGGTCAAAAATACCAAGGTTATTAAAAAGGGTG$
CRCVspike	${\tt CTGATTTTATTGATGGTGTTTTTGCTAAGGTAAAAAATACCAAGGTTATTAAAGATGGTG}$
HEVspike	${\tt CACCTTTTAATGATGGTATTTTTGCCAAGGTTAAAAACAGCAGATTTTCTAAACATGGTG}$
	* **** * **** * ***** ***** ****



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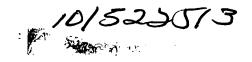
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FIGURE 9 (Page 2 of 12)

DOMani ka	™»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»
BCVspike	TAATGTATAGTGAGTTTCCTGCTATAACTATAGGTAGTACTTTTGTAAATACATCCTATA
HCVspike	TAATGTATAGTGAGTTTCCTGCTATAACTATAGGTAGTACTTTTGTAAATACATCCTATA
CRCVspike	TAGTGTATAGTGAGTTTCCTGCTATAACTATAGGTAGTACTTTTGTAAATACATCCTATA
HEVspike	TTATTTATAGTGAGTTTCCTGCTATTACTATAGGTAGTACTTTTGTAAATACTTCCTATA
	* * ******** ***** ********************
BCVspike	GTGTGGTAGTACAACCACATACTACCAATTTAGATAATAAATTACAAGGTCTCTTAGAGA
HCVspike	GTGTGGTAGTACAACCACATACTACCAATTTGGATAATAAATTACAAGGTCTCTTAGAGA
CRCVspike	GTGTGGTAGTACAACCACATACTACTAATTTAGATAATAAATTACAAGGTCTCTTAGAGA
HEVspike	GCATAGTAGTAAAGCCTCATACCTCATTTATTAATGGTAATTTACAAGGTTTTTTTGCAAA
печэртке	* * ***** * * * * * * * * * * * * * *
BCVspike	${\tt TCTCTGTTTGCCAGTATACTATGTGCGAGTACCCACATACGATTTGTCATCCTAATTTGG}$
HCVspike	${\tt TCTCTGTTTGCCAGTATACTATGTGCGAGTACCCACATACGATTTGTCATCCTAATCTGG}$
CRCVspike	${\tt TCTCTGTTTGCCAGTATACTATGTGCGATTACCCACATACGATGTGTCATCCTAATCTGG}$
HEVspike	${\tt TTTCTGTTTGTCAATATACTATGTGTGAATACCCACAGACTATTTGTCATCCTAATTTGG}$
	* ****** ** ******* ** ****** ** ** **
BCVspike	GTAATCGGCGCATAGAACTATGGCATTGGGATACAGGTGTTGTTTCCTGTTTATATAAGC
HCVspike	GTAATCGACGCGTAGAACTATGGCATTGGGATACAGGTGTTGTTTCCTGTTTATATAAGC
CRCVspike	GTAATAAACGCATAGAACTATGGCATTGGGATACAGGTGTTGTTCCCTGTTTATATAAGC
HEVspike	GTAATCAACGCATAGAATTATGGCATCATGACACAGATGTTGTTTCTTGTTTATACAGGC

BCVspike	GTAATTTCACATATGATGTGAATGCTGATTATTTGTATTTCCATTTTTATCAAGAAGGTG
HCVspike	${\tt GTAATTTCACATATGATGTGAATGCTGATTACTTGTATTTCCATTTTTATCAAGAAGGTG}$
CRCVspike	${\tt GTAATTTCACATATGATGTGAATGCTGATTATTTGTATTCCCATTTTTATCAAGAAGGTG}$
HEVspike	GTAATTTCACATATGATGTGAATGCTGATTATTTATATTTTCACTTTTATCAGGAAGGTG

BCVspike	${\tt GTACTTTTATGCATATTTTACAGACACTGGTGTTGTTACTAAGTTTCTGTTTAATGTTT}$
HCVspike	${\tt GTACTTTTATGCATATTTTACAGACACTGGTGTTGTTACTAAGTTTCTGTTTAATGTTT}$
CRCVspike	${\tt GTACTTTTATGCATATTTTACAGACACTGGTGTTGTTACTAAGTTTCTGTTTCATGTTT}$
HEVspike	${\tt GCACTTTTTATGCATACTTTACAGATACTGGTTTTGTGACCAAGTTTCTGTTTAAGTTGT}$
	* ********** ***** ***** **** *** ** **



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FIGURE 9 (Page 3 of 12)

BCVspike	ATTTAGGCACGGTGCTTTCACATTATTATGTCATGCCTTTGACTTGTAATAGTGCTATGA
HCVspike	ATTTAGGCACGGTGCTTTCACATTATTATGTCCTGCCTTTGACTTGTAATAGTGCTATGA
CRCVspike	ATTTAGGCACGGTGCTTTCACATTATTATGTCATGCCCTTGACTTGTAATAGTGCTATGA
HEVspike	ATTTAGGCACTGTGCTGTCACACTATTATGTTATGCCATTGACTTGTGATAGCGCTTTAT
	******* *** **** **** ***** **** ***
BCVspike	CTTTAGAATATTGGGTTACACCTCTCACTTCTAAACAATATTTACTCGCTTTCAATCAA
HCVspike	CTTTAGAATATTGGGTTACACCTCTCACTTCTAAACAATATTTACTAGCTTTCAATCAA
CRCVspike	CTTTAGAATACTGGGTTACACCTCTCACTTTTAAACAATATTTACTCGCTTTCAATCAA
HEVspike	CTTTAGAATATTGGGTTACACCTCTCACTACTAGACAATTTCTTCTAGCCTTTGACCAGG
	****** ****** ** ** ** ** ** ** * * * *
BCVspike	ATGGTGTTATTTTTAATGCTGTTGATTGTAAGAGTGATTTTATGAGTGAG
HCVspike	ATGGTGTTATTTTTAATGCTGTTGATTGTAAGAGTGATTTTATGAGTGAG
CRCVspike	ATGGTGTTATTTTTAATGCTGTTGATTGTAAGAGTGATTTTATGAGTGAG
HEVspike	ATGGTGTTTTATACCATGCTGTTGATTGTGCTAGTGATTTTATGAGTGAG
	****** * * ********* ****************
BCVspike	AAACACTATCTATAGCACCATCTACTGGTGTTTATGAATTAAACGGTTACACTGTTCAGC
HCVspike	AAACACTATCTATAGCACCATCTACTGGTGTTTATGAATTAAACGGTTACACTGTTCAGC
CRCVspike	AAACACTATCTATAGCACCATCTACTGGTGTTTATGAATTAAACGGTTACACTGTTCAGC
HEVspike	AAACTTCTTCAATTACACCACCTACTGGTGTTTATGAACTAAACGGTTACACAGTTCAAC
	**** ** ** **** ********** ****** *
BCVspike	CAATTGCAGATGTTTACCGACGTATACCTAATCTTCCCGATTGTAATATAGAGGCTTGGC
HCVspike	CAATTGCAGATGTTTACCGACGTATACCTAATCTTCCCGATTGTAATATAGAGGCTTGGC
CRCVspike	CAATTGCAGATGTTTACCGACGTATACCTAATCTTCCCGATTGTAATATAGAGGCTTGGC
HEVspike	CTGTTGCCACTGTGTATCGTAGAATACCTGACTTACCCAATTGCGATATCGAAGCTTGGC
	* **** *** ** ** * ***** * * *** *** ** ****
BCVspike	TTAATGATAAGTCTGTGCCCTCTCCATTAAATTGGGAACGTAAGACCTTTTCAAATTGTA
HCVspike	TTAATGATAAGTCGGTGCCCTCTCCATTAAATTGGGAACGTAAGACCTTTTCAAATTGTA
CRCVspike	TTAATGATAAGTCGGTGCCTTCTCCATTAAATTGGGAACGTAAGACCTTTTCAAATTGTA
HEVspike	TTAATTCTAAGACCGTTTCTTCGCCTCTTAATTGGGAACGTAAAATTTTTTCTAATTGTA
	**** **** * ** * * * * * * * * * * * * *

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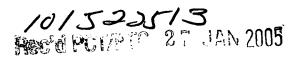
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FIGURE 9 (Page 4 of 12)

BCVspike	ATTTTAATATGAGCAGCCTGATGTCTTTTATTCAGGCAGACTCATTTACTTGTAATAATA
HCVspike	ATTTTAATATGAGCAGCCTGATGTCTTTTATTCAGGCAGACTCATTTACTTGTAATAATA
CRCVspike	ATTTTAATATGAGCAGCCTGATGTCTTTTATCCAGGCTGACTCGTTTACTTGTAATAATA
HEVspike	ATTTTAACATGGGCAGGCTGATGTCTTTTATTCAGGCTGACTCTTTTGGTTGTAACAATA
HEVSPIKE	****** *** *** **** **** **** **** **** ***
BCVspike	TTGATGCAGCTAAGATATATGGTATGTTTTTTCCAGCATAACTATAGATAAGTTTGCTA
HCVspike	TTGATGCTGCTAAGATATATGGTATGTTTTTTCCAGCATAACTATAGATAAGTTTGCTA
CRCVspike	TTGATGCTGCTAAGATATACGGTATGTGTTTTTTCAGCATAACTATAGATAAGTTTGCTA
HEVspike	TTGATGCTTCTCGCTTATATGGTATGTTTTTGGTAGCATTACTATTGACAAGTTTGCTA
	****** ** *** ******** ***** *****
BCVspike	TACCCAATGGTAGGAAGGTTGACCTACAATTGGGCAATTTGGGCTATTTGCAGTCTTTTA
HCVspike	${\tt TACCCAATGGTAGGAAGGTTGACCTACAATTGGGCAATTTGGGCTATTTGCAGTCTTTTA}$
CRCVspike	${\tt TACCCAATGGTAGGAAGGTTGACCTACAAATGGGCAATTTGGGCTATTTGCAGTCTTTTA}$
HEVspike	${\tt TACCCAATAGTAGAAAGGTTGATCTGCAAGTGGGTAAATCTGGTTATTTACAATCTTTTA}$
	****** *** **** ** ** ** ** ** ** ** **
BCVspike	${\tt ACTATAGAATTGATACTACTGCTACAAGTTGTCAGTTGTATTATAATTTACCTGCTGCTA}$
HCVspike	${\tt ACTATAGAATTGATACTACTGCTACAAGTTGTCAGTTGTATTATAATTTACCTGCTGCTA}$
CRCVspike	${\tt ACTATAGAATTGATACTACTGCTACAAGTTGTCAGTTGTATTATAATTTACCTGCTAGTA}$
HEVspike	${\tt ATTATAGATTGACACTGCTGTTAGCAGTTGTCAACTCTATTATAGTTTGCCTGCAGCAA}$
	* **** **** *** *** ** ****** * ****** *
BCVspike	ATGTTTCTGTTAGCAGGTTTAATCCTTCTACTTGGAATAGGAGATTTGGTTTTACAGAAC
HCVspike	ATGTTTCTGTTAGCAGGTTTAATCCTTCTACTTGGAATAGGAGATTTGGTTTTACAGAAC
CRCVspike	ATGTTTCTATTAGCAGGTTTAATCCTTCTATTTGGAATAGGAGATTTGGTTTTACAGAAC
HEVspike	ACGTATCTGTCACTCATTATAATCCTTCATCTTGGAACAGAAGGTATGGGTTTATT
	* ** *** * * * ******* ***** ** ** * ***
BCVspike	AATCTGTTTTTAAGCCTCAACCTGTAGGTGTTTTTTACTGATCATGATGTTGTTTATGCAC
HCVspike .	AATCTGTTTTTAAGCCTCAACCTGTAGGTGTTTTTACTCATCATGATGTTGTTTATGCAC
CRCVspike	AATCTGTTTTTAAGCCTCAACCTGTAGGTGTTTTTACTGATCATGATGTTGTTTATGCAC
HEVspike	AATCAGAGTTTTGGTTCCAGAGGC-CTTCATGATGCTGTATATTCAC

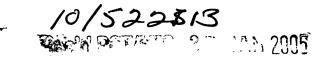


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FIGURE 9 (Page 5 of 12)

BCVspike	${\tt AACATTGTTTTAAAGCTCCCACAAATTTCTGTCCGTGTAAATTGGATGGGTCTTTGTGTG}$
HCVspike	${\tt AACATTGTTTAAAGCTCCCACAAATTTCTGTCCGTGTAAATTGGATGGGTCTTTGTGTG}$
CRCVspike	AACATTGTTTTAAAGCTCCCACAAATTTCTGTCCGTGTAAATTGAATGGGTCTTTGTGTG
HEVspike	AGCAATGTTTTAATACACCTAATACATATTGTCCTTGTAGAACAAGTCAATGCA
	* ** ****** * ** * * **** *** * * **
BCVspike	TAGGTAGTGGTTCTGGTATAGATGCTGGTTATAAAAATAGTGGTATAGGCACTTGTCCTG
HCVspike	TAGGTAATGGTCCTGGTATAGATGCTGGTTATAAAAATAGTGGTATAGGCACTTGTCCTG
CRCVspike	TAGGTAGTGGTTTTGGTATAGATGCTGGTTATAAAAATAGTGGTATAGGCACTTGTCCTG
HEVspike	TAGGTGGTGCTGGCACAGGAACTTGTCCTGTAGGCACCACTGTGCGCAAGTGTTTTG
	**** ** *** * ** * * * * * * * * * * * *
BCVspike	CAGGTACTAATTATTTAACTTGTCATAATGCTGCCCAATGTAATTGTTTGT
HCVspike	CAGGTACTAATTATTTAACTTGCCATAATGCTGCCCAATGTGATTGTTTGT
CRCVspike	CAGGTACTAATTATTTAACTTGTTATAATGCTAACCAATGTGATTGTTTGT
HEVspike	CTGC-AGTTACAAACGCTACTAAGTGTACTTGCTGGTGTCAACCAG
	* * * * * * * * * * * * * * * * * * * *
BCVspike	ACCCCATTACATCTAAATCTACAGGGCCTTATAAGTGCCCCCAAACTAAATATTTAGTTG
HCVspike	ACCCCATTACATCTAAATCTACAGGGCCTTACAAGTGCCCCCAAACTAAATACTTAGTTG
CRCVspike	ACCCTATTTTATCTAAATCTACAGGGCCTTATAAGTGCCCCCAAACTAAATACTTAGTTG
HEVspike	ATCCTTCCACATATAAAGGTGTAAATGCCTGGACTTGTCCGCAATCTAAAGTTTCTATAC
	* **
BCVspike	GCATAGGTGAGCACTGTTCGGGTCTTGCTATTAAAAGTGATTATTGTGGAGGTAATCCTT
HCVspike	GCATAGGTGAGCACTGTTCGGGTCTTGCTATTAAAAGTGATTATTGTGGAGGTAATCCTT
CRCVspike	GCATAGGTGAGCACTGTTCTGGTCTTGCTATTAAAAGTGATTATTGTGGAGGCAATCCTT
HEVspike	AACCAGGTCAGCATTGCCCTGGCTTGGGTCTTGTGGAGGATGATTGCTCTGGTAATCCTT
	*** *** * * * * * * * * * * * * * * * *
BCVspike	GTACTTGCCAACCACAAGCATTTTTGGGTTGGTCTGTTGATTCTTGTTTACAAGGGGATA
HCVspike	GTACTTGCCAACCACAAGCATTTTTGGGTTGGTCTGTTGACTCTTGTTTACAAGGGGATA
CRCVspike	GTACTTGCCAACCAAAAGCATTTTTGGGTTGGTCTGTGGACTCTTGTTTACAAGGGGATA
HEVspike	GCACTTGTAAACCACAGGCTTTCATAGGCTGGAGTTCAGAAACTTGTTTGCAAAATGGTA
•	* **** **** * ** * * * * * * * * * * * *



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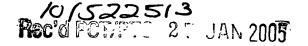
FIGURE 9 (Page 6 of 12)

BCVspike	GGTGTAATATCTTTGCTAATTTTATTTTGCATGATGTTAATAGTGGTACTACTTGTTCTA
HCVspike	GGTGTAATATTTTTGCTAATTTTATTTTGCATGATGTTAATAGTGGTACTACTTGTTCTA
CRCVspike	GGTGTAATATTTTGCTAATTTTATTTTGCATGGTGTTAATAGTGGTACTACTTGTTCTA
HEVspike	GGTGTAATATTTTTGCTAATTTTATTTTGAATGATGTTAATAGCGGTACTACCTGTTCTA
•	******* ***** ****************** ******
BCVspike	CTGATTTACAAAAATCAAACACAGACATAATTCTTGGTGTTTGTGTTAATTATGATCTTT
HCVspike	CTGATTTACAAAAATCAAACACAGACATAATTCTTGGTGTTTGTGTTAATTATGATCTTT
CRCVspike	CTGATTTACAAAAATCAAACACAGACATAATTCTTGGTGTTTGTGTTAATTATGATCTTT
HEVspike	CTGATTTACAACAGGGTAATACTAATATTACTACTGATGTTTGTGTTAATTATGACCTAT
	********** * ** ** * * * * * * * * * * *
BCVspike	ATGGTATTACAGGCCAAGGTATTTTTGTTGAGGTTAATGCGACTTATTATAATAGTTGGC
HCVspike	ATGGTATTACAGGCCAAGGTATTTTTGTTGAGGTTAATGCGCCTTATTATAATAGTTGGC
CRCVspike	ATGGTATTACAGGCCAAGGTATTTTTGTTGAGGTTAATGCGACTTATTATAATAGTTGGC
HEVspike	ATGCCATTACAGGCCAGGCCATACTTATAGAAGTTAATGCCACGTATTATAATAGTTGGC
nevspike	**** ******** ** ** ** ** ** ** ******
BCVspike	AGAACCTTTTATATGATTCTAATGGTAATCTCTATGGTTTTAGAGACTACTTAACAAACA
HCVspike	AGAACCTTTTATATGATTCTAATGGTAATCTCTATGGTTTTAGAGACTACTTAACAAACA
CRCVspike	AGAACCTTTTATATGATTCTAATGGTAATCTCTATGGTTTTAGGGACTACTTAACAAACA
HEVspike	AGAATCTTCTTTATGATTCTAGTGGTAATCTCTATGGCTTTAGAGATTATTTAT
•	**** *** * ******* ******* **** ** ** *
BCVspike	GAACTTTTATGATTCGTAGTTGCTATAGCGGTCGTGTTTCAGCGGCCTTTCATGCTAATT
HCVspike	GAACTTTTATGATTCGTAGTTGCTATAGCGGTCGTGTTTCAGCGGCCTTTCATGCTAACT
CRCVspike	GAACTTTTATGATTCGTAGTTGCTATAGCGGTCGTGTTTCAGCGGGCTTTCACTCTAACT
HEVspike	GAACCTTTCTTATTCGTAGCTGCTATAGTGGAAGAGTTTCAGCAGTCTTTCATGCTAACT
	*** *** * * ***** ***** ** * * ***** * *
BCVspike	CTTCCGAACCAGCATTGCTATTTCGGAATATTAAATGCAATTACGTTTTTAATAATACTC
HCVspike	CTTCCGAACCAGCATTGCTATTTCGGAATATTAAATGCAGTTACGTTTTTAATAATACTC
CRCVspike	CTTCCGAACCAGCATTGCTATTTCGGAATATTAAATGCAATTACGTTTTTAATAATACTC
HEVspike	CTTCTGAACCAGCTTTGATGTTTCGTAATCTTAAATGCAGCCACGTTTTTAATTATACCA
- · - - ·	**** ****** *** * **** *** ****** ******



FIGURE 9 (Page 7 of 12)

BCVspike	TTTCACGACAGCTGCAACCTATTAACTATTTTGATAGTTATCTTGGTTGTGTTGTCAATG
HCVspike	TTTCACGACAGCTGCAACCTATTAACTATTTTGATAGTTATCTTGGTTGTGTTGTCAATG
CRCVspike	TTTCACGACAGCTGCAACCTATTAACTATTTTGATAGTTATCTTGGTTGTGTTGTCAATG
HEVspike	TTTTAAGACAAATACAGCTTGTTAATTATTTTGATAGTTACCTTGGTTGTGTTAATG
•	*** * **** * ** * * **** ******* ******
BCVspike	CTGATAATAGTACTTCTAGTGCTGTTCAAACATGTGATCTCACAGTAGGTAG
HCVspike	CTGATAATAGTACTTCTAGTGTTGTTCAAACATGTGATCTCACAGTAGGTAG
CRCVspike	CTGATAATAGTACTTCTAGTTCTGTTCAAACATGTGATCTCACAGTAGGTAG
HEVspike	CTTATAATAATACAGCTAGTGCTGTAAGTACTTGTGATTTAACCGTTGGTAGCGGCTATT
	** ***** *** **** *** ** ** ** ** ** **
BCVspike	GTGTGGATTACTCTACAAAAAGACGAAGTCGTAGAGCGATTACCACTGGTTATCGGTTTA
HCVspike	GTGTGGATTACTCTACAAAAAGACGAAGTCGTAGAGCGATTACCACTGGTTATCGGTTTA
CRCVspike	${\tt GGGGGGATTACTCTACACAAAGACGAAGTCGTAGAACGATTACCACTGGTTATCGGTTTA}$
HEVspike	$\tt GTGTTGATTATGTTACAGCACTTAGATCACGTAGATCTTTTACTACAGGTTATCGCTTTA$
	* * **** **** * ** ****** * ****** ***
BCVspike	$\tt CTAATTTTGAGCCATTTACTGTTAATTCAGTAAATGATAGTTTAGAACCTGTAGGTGGTT$
HCVspike	$\tt CTAATTTTGAGCCATTTACTGTTAATTCAGTAAATGATAGTTTAGAACCTGTAGGTGGTT$
CRCVspike	$\tt CTAATTTTGAGCCATTTACTGTTAATCCAGTAAATGATAGTTTACACCCTGTAGGTGGTT$
HEVspike	$\tt CTAATTTTGAACCATTTGCCGCTAATTTGGTAAATGATAGTATAGAACCTGTTGGTGGTT$
	******* ***** * * **** * * ****
BCVspike	TGTATGAAATTCAAATACCTTCAGAGTTTACTATAGGTAATATGGAGGAGTTTATTCAAA
HCVspike	$\tt TGTATGAAATTCAAATACCTTCAGAGTTTACTATAGGTAATATGGAGGAGTTTATTCAAA$
CRCVspike	$\tt TGTATGAAATTCAAATACCTTCAGAGTTTACTATAGGTAATATGGAGGAGTTTATTCAAA$
HEVspike	TGTAŢGAAATACAGATACCTTCAGAGTTTACCATTGGTAATTTAGAAGAATTCATTC
	****** ** ********** ** ******
BCVspike	${\tt TAAGCTCTCCTAAAGTTACTATTGATTGTTCTGCTTTTGTCTGTGGTGATTATGCAGCAT}$
HCVspike	${\tt CAAGCTCTCCTAAAGTTACTATTGATTGTTCTGCTTTTTGTCTGTGGTGATTATGCAGCAT}$
CRCVspike	${\tt CAAGATCTCCTAAAGTTACTATTGATTGTCCTGTTTTTTGTCTGTGGTGATTATGCAGCAT}$
HEVspike	${\tt CGAGTTCCCCTAAGGTTACTATAGATTGTGCTACATTTGTTGTGGTGACTATGCTGCAT}$
	** ** ***** ****** ***** ** **** ***** ****



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FIGURE 9 (Page 8 of 12)

BCVspike	GTAAATCACAGTTGGTTGAATATGGTAGTTTCTGTGACAATATTAATGCTATACTCACAG
HCVspike	GTAAATCACAGTTGGTTGAATATGGTAGCTTCTGTGACAATATTAATGCTATACTCACAG
CRCVspike	${\tt GTAAATCACAGTTGGTTGAATATGGTAGTTTTTTGTGACAATATTAATGCTATACTCACAG}$
HEVspike	GTAGACAACAGTTAGCTGAGTATGGTAGTTTTTTGTGAGAACATTAATGCTATACTCATAG
	*** * ***** * *** ****** ** ******** **
BCVspike	AAGTAAATGAACTACTTGACACTACACAGTTGCAAGTAGCTAATAGTTTAATGAATG
HCVspike	AAGTAAATGAACTACTTGACACTACACAGTTGCAAGTAGCTAATAGTTTAATGAATG
CRCVspike	AAGTAAATGAACTACTTGACACTACACAGTTGCAAGTAGCTAATAGTTTAATGAATG
HEVspike	AAGTAAATGAACTACTTGACACTACACAGTTGCAAGTAGCTAATAGTTTAATGAATG
-	****************
BCVspike	TCACTCTTAGCACTAAGCTTAAAGATGGCGTTAATTTCAATGTAGACGACATCAATTTTT
HCVspike	TCACTCTTAGCACTAAGCTTAAAGATGGCGTTAATTTCAATGTAGACGACATCAATTTTT
CRCVspike	TCACTCTTAGCACTAAGCTTAAAGATGGCTTTAATTTCAATGTAGATGACATCAATTTTT
HEVspike	TCACCCTTAGTACTAAGATTAAGGATGGGATTAATTTCAATGTTGACGATATCAACTTCT
•	**** **** ***** **** **** ********* **
BCVspike	CCCCTGTATTAGGTTGTTTAGGAAGCGATTGTAATAAAGTTTCCAGTAGATCTGCTATAG
HCVspike	CCCCTGTATTAGGTTGTTTAGGAAGCGCTTGTAATAAAGTTTCCAGCAGATCTGCTATAG
CRCVspike	CCCCTGTATTAGGTTGTTTAGGAAGCGAATGTAATAAAGTTTCCAGTAGATCTGCTATAG
HEVspike	CCTCTGTATTAGGTTGTTTAGGAAGCGAATGTAACAGAGCTTCCACTAGATCTGCTATAG
•	** ***** **********
BCVspike	AGGATTTACTTTTTCTAAAGTAAAGTTATCTGATGTCGGTTTTGTTGAGGCTTATAATA
HCVspike	AGGATTTACTTTTTCTAAAGTAAAGTTATCTGATGTCGGTTTCGTTGAGGCTTATAATA
CRCVspike	AGGATTTACTTTTTCTAAAGTAAAGTTATCTGATGTTGGTTTTGTTGATGCTTATAATA
HEVspike	AGGATTTACTTTTTGATAAAGTAAAATTGTCTGATGTCGGTTTTGTACAGGCCTATAATA
•	********** ******* ** ****** ***** ** *
BCVspike	ATTGTACTGGAGGTGCCGAAATTAGGGACCTCATTTGTGTGCAAAGTTATAATGGTATCA
HCVspike	ATTGTACTGGAGGTGCCGAAATTAGGGACCTCATTTGTGTGCAAAGTTATAATGGTATCA
CRCVspike	ATTGTACTGGAGGTGCCGAAATTAGGGACCTCATTTGTGTGCAAAGTTATAATGGTATCA
HEVspike	ACTGCACTGGAGGAGCCGAAATTAGGGATCTCATTTGTGTGCAAAGTTATAATGGTATCA
-	* ** ****** ********** ************

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FIGURE 9 (Page 9 of 12)

BCVspike	AAGTGTTGCCTCCACTACTCTCAGAAAATCAGATCAGTGGATACACTTTGGCTGCTACCT
HCVspike	AAGTGTTGCCTCCACTGCTCTCAGTAAATCAGATCAGTGGATACACTTTGGCTGCCACCT
CRCVspike	AAGTGTTGCCTCCACTGCTCTCAGAAAATCAGATCAGTGGATACACTTTGGCTGCCACCT
HEVspike	AAGTGTTGCCTCCATTGTTATCTGAAAATCAGATTAGTGGTTACACTTCGGCAGCCACCG
	*********** * * ** * ******* ***** ***
BCVspike	CTGCTAGTCTGTTTCCTCCTTGGTCAGCAGCAGCAGCGTACCATTTTATTTA
HCVspike	CTGCTAGTCTGTTTCCTCCTTGGTCAGCAGCAGCAGGTGTACCATTTTATTTA
CRCVspike	TTGCTAGTCTGTTTCCTCCTTGGTCAGCAGCAGCAGCGTACCATTTTATTTA
HEVspike	CTGCTAGCCTATTTCCTCCCTGGACAGCTGCAGCAGGTGTACCATTTTATTTA
	***** ** ***** ** ***
BCVspike	AGTATCGTATTAATGGGATTGGTGTTACCATGGATGTTCTAAGTCAAAATCAAAAGCTTA
HCVspike	AGTATCGTATTAATGGGATTGGTGTTACCATGGATGTGTTAAGTCAAAATCAAAAGCTTA
CRCVspike	AGTATCGTATTAATGGTATTGGTGTTACCATGGATGTGCTAACTCAAAATCAAAAGCTTA
HEVspike	AGTATCGTATAAATGGGCTTGGCGTCACCATGGATGTGCTAAGCCAAAACCAAAAGCTTA
	******* **** **** **** ** ******* *** ****
BCVspike	TTGCTAATGCATTTAACAATGCCCTTGATGCTATTCAGGAAGGGTTTGATGCTACCAATT
HCVspike	TTGCTAATGCATTTAGCAATGCTCTTGATGCTATTCAGGAAGGGTTTGATGCTACCAATT
CRCVspike	TTTCTAATGCATTTAACAATGCCCTTGATGCTATTCAGGAAGGGTTTGATGCTACCAATT
HEVspike	TTGCTAGTGCATTTAACAACGCTCTTGATTCTATCCAGGAAGGGTTCGACGCAACCAATT
	** *** ****** *** ** ** ***** ***** **
BCVspike	CTGCTTTAGTTAAAATTCAAGCTGTTGTTAATGCAAATGCTGAAGCTCTTAATAACTTAT
HCVspike	CTGCTTTAGTTAAAATTCAAGCTGTTGTTAATGCAAATGCTGAAGCTCTTAATAACTTAT
CRCVspike	CTGCTTTAGTTAAAATTCAAGCTGTTGTTAATGCAAATGCTGAAGCTCTTAATAACTTAT
HEVspike	CTGCTTTAGTTAAAATTCAGGCTGTTGTTAATGCAAATGCTGAAGCACTTAATAACTTAT

BCVspike	TGCAACAACTCTCTAATAGATTTGGTGCTATAAGTTCTTCTTTACAAGAAATTCTATCTA
HCVspike	TGCAACAACTCTCTAATAGATTTGGTGCTATAGGTTCTTCTTTACAAGAAATTCTATCTA
CRCVspike	TGCRACAACTCTCTAATAAATTTGGTGCTATAAGTGCTTCTTTACAAGAAATTCTATCTA
HEVspike	TGCAGCAACTCTCTAACAGATTTGGTGCCATAAGTGCCTCTTTACAAGAAATTTTATCCA
•	*** ******** * ******* *** ** * *******

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FIGURE 9 (Page 10 of 12)

BCVspike	GACTTGATGCTCTTGAAGCGCAAGCTCAGATAGACAGACTTATTAATGGGCGTCTTACCG
HCVspike	${\tt GACTGGATGCTCTTGAAGCGCAAGCTCAGATAGACAGACTTATTAATGGGCGTCTTACCG}$
CRCVspike	${\tt GACTTGATGCTCTTGAAGCGCAAGCTCAGATAGACAGACTTATCAATGGGCGTCTTACCG}$
HEVspike	GGCTCGATGCTCTTGAAGCTAAAGCTCAGATAGACAGACTTATTAATGGGCGTCTCACCG
	* ** ******* ******* ******** ****** ***
BCVspike	$\tt CTCTTAATGCTTATGTTTCTCAACAGCTTAGTGATTCTACACTAGTAAAATTTAGTGCAG$
HCVspike	$\tt CTCTTAATGCTTATGTTTCTCAACAGCTTAGTGATTCTACACTAGTAAAATTTAGTGCAG$
CRCVspike	$\tt CTCTTAATGCTTATGTTTCTCAACAGCTTAGTGATTCTACACTAGTAAAATTTAGTGCAG$
HEVspike	$\tt CTCTTAATGCTTATGTTTCTCAGCAGCTTAGTGATTCTACACTAGTAAAATTTAGTGCAG$

BCVspike	CACAAGCTATGGAGAAGGTTAATGAATGTGTCAAAAGCCAATCATCTAGGATAAATTTTT
HCVspike	CACAAGCTATGGAGAAGGTTAATGAATGTGTCAAAAGCCAATCATCTAGGATAAATTTTT
CRCVspike	CACAAGCTATGGAGAAGGTTAATGAATGTGTCAAAAGCCAATCATCTAGGATAAATTTTT
HEVspike	CACAAGCTATTGAGAAAGTTAATGAATGTGTTAAAAGCCAATCATCTAGGATAAATTTCT
	******** **** ***** ******* ******* *
BCVspike	GTGGTAATGGTAATCATATATCATTAGTGCAGAATGCTCCATATGGTTTGTATTTTA
HCVspike	GTGGTAATGGTAATCATTATATCATTAGTGCAGAATGCTCCATATGGTTTGTATTTTA
CRCVspike	GTGGTAATGGTAATCAŤATTATATCATTAGTGCAGAATGCTCCATATGGTTTGTATTTTA
HEVspike	GTGGTAATGGTAATCATTATATCATTAGTACAGAATGCTCCATATGGTTTGTATTTTA

BCVspike	TCCACTTTAGCTATGTCCCTACTAAGTATGTCACTGCGAAGGTTAGTCCCGGTCTGTGCA
HCVspike	TCCACTTTAGCTATGTCCCTACTAAGTATGTCACTGCGAAGGTTAGTCCCGGTCTGTGCA
CRCVspike	TCCACTTTAGCTATGTCCCTACTAAGTATGTCACTGCGAAGGTTAGTCCCGGTCTGTGCA
HEVspike	TCCATTTTAGCTATGTCCCCACCAAGTATGTTACAGCAAAGGTTAGTCCTGGTTTGTGCA
	**** ********** ** ******* ** ******** ** ** ***
BCVspike	TTGCTGGTGATAGAGGTATAGCCCCTAAGAGTGGTTATTTTGTTAATGTAAATAACACTT
HCVspike	TTGCTGGTGATAGAGGTATAGCCCCTAAGAGTGGTTATTTTGTTAATGTAAATAATACTT
CRCVspike	TYGCAGGTGATAGAGGTATAGCTCCTAAGAGTGGTTATTTTGTTAATGTAAATAACACTT
HEVspike	TTGCTGGCGATATAGGAATATCGCCTAAGAGTGGTTATTTAT
	* ** ** *** *** *** * ************ ***



FIGURE 9 (Page 11 of 12)

BCVspike	GGATGTTCACTGGTAGTGGTTATTACTACCCTGAACCTATAACTGGAAATAATGTTGTTG
HCVspike	GGATGTTCACTGGTAGTGGTTATTACTACCCTGAACCCATAACTGGAAATAATGTTGTTG
CRCVspike	GGATGTTCACTGGTAGTGGTTATTACTACCCTGAACCTATAACTGGAAATAATGTGGTTG
HEVspike	GGATGTTCACTGGTAGTGGCTATTACTACCCTGAACCTATAACCCAAAATAATGTTGTTG

BCVspike	TTATGAGTACCTGTGCTGTTAATTACACTAAAGCACCGGATGTAATGCTGAACATTTCAA
HCVspike	TTATGAGTACCTGTGCTGTTAACTATACTAAAGCGCCGGATGTAATGCTGAACATTTCAA
CRCVspike	TTATGAGTACCTGTGCTGTTAACTATACTAAAGCACCGGATGTAATGCTGAACATTTCAA
HEVspike	TGATGAGTACGTGTGCTGTTAATTATACTAAAGCACCGGATCTAATGCTGAACACATCGA
	* ****** ******* ** ****** ** ***** **
3CVspike	CACCCAACCTCCCTGATTTTAAGGAAGAGTTGGATCAATGGTTTAAAAACCAAACATCAG
HCVspike	CACCCAACCTCCATGATTTTAAGGAAGAGTTGGATCAATGGTTTAAAAACCAAACATCAG
CRCVspike	CACCCAACCTCCCTGATTTTAAGGAAGAGTTGGATCAATGGTTTAAAAACCAAACATTAA
HEVspike	CACCCAACCTTCCTGATTTCAAGGAAGAATTGTATCAATGGTTTAAAAACCAATCTTCAT
	********* * ****** * ******************
BCVspike	TGGCACCAGATTTGTCACTTGATTATATATGTTACATTCTTGGACCTACAAGATGAAA
HCVspike	TGGCACCAGATTTGTCACTTGATTATATATGTTACATTCTTGGACCTACAAGATGAAA
CRCVspike	TGGCACCAGATTTGTCACTTGATTATATATGTTACATTCTTGGACCTACAAGATGAAA
HEVspike	TGGCACCAGATTTGTCATTTGATTATTTAATGTTACGTTCTTGGACCTACAAGATGAAA

BCVspike	TGAATAGGTTACAGGAGGCAATAAAAGTTTTAAATCAGAGCTACATCAATCTCAAGGACA
HCVspike	TGAATAGGTTACAGGAGGCAATAAAAGTTTTAAATCAGAGCTACATCAATCTCAAGGACA
CRCVspike	TGAATAGGTTACAGGAGGCAATAAAAGTTTTAAATCATAGCTACATCAATCTCAAGGACA
HEVspike	TGAATAGGTTACAAGAAGCTATAAAAGTTCTAAATCATAGCTACATCAATCTCAAGGACA
	*********** ** ** ******* *************
BCVspike	TTGGTACATATGAGTATTATGTAAAATGGCCTTGGTATGTAT
HCVspike	TTGGTACATATGAGTATTATGTAAAATGGCCTTGGTATGTAT
CRCVspike	TTGGTACATATGAATATTATGTAAAATGGCCTTGGTATGTAT
HEVspike	TTGGTACATATGAGTATTATGTGAAATGGCCTTGGTATGTAT

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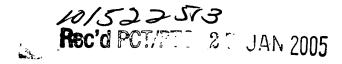
FIGURE 9 (Page 12 of 12)

BCVspike	CTGGTGTAGCTATGCTTGTTTACTATTCTTCATATGCTGTTGTACAGGATGTGGGACTA
HCVspike	$\tt CTGGTGTAGCTATGCTTGTTTACTATTCTTCATATGCTGTTGTACAGGATGTGGGACTA$
CRCVspike	$\tt CTGGCGTAGCTATGCTTGTTTACTATTCTTCATATGCTGTTGTACAGGATGTGGGACTA$
HEVspike	$\tt CTGGTGTAGTTATGCTTGTTTACTATTCTTCATATGCTGCTGTACAGGATGTGGGACTA$
	**** **** ***********************
	•
BCVspike	GTTGTTTTAAGAAATGTGGTGGTTGTTGTGATGATTATAC
HCVspike	GTTGTTTTAAGATATGTGGTGGTTGTTGTGATGATTATACTGGACACCAGG
CRCVspike	GTTGTTTTAAGAAATGCGGTGGTTGTTGTGATGATTATACTGGACATCAGG
HEVspike	GTTGTTTTAAGAAATGTGGCGGTTGTTTTGATGATTATACTGGACACCAGGAGTTTGTAA
	******** *** ** ******
BCVspike	
HCVspike	
CRCVspike	
HEVspike	TCAAAACTTCACATGACGATTAATTTCGT



FIGURE 10 (Page 1 of 5)

BCVspikepro	MFLILLISLPMALAVIGDLKCTTVSINDVDTGVPSVSTDTVDVTNGLGTYYVLDRV
HCVspikepro	MFLILLISLPTAFAVIGDLKCTTVSINDIDTGAPSISTDIVDVTNGLGTYYVLDRV
CRCVspikepr	MFLILLISLPMAFAVIGDLKCTTVSINDVDTGAPSISTDVVDVTNGLGTYYVLDRV
HEVspikepro	$\hbox{\ttMFFILLITLPSVFAVIGDLKCNTSSINDVDTGVPSISSEVVDVTNGLGTFYVLDRV}$
CECVspikepr	MIVLVTCILLLCSYHTASSTSNNDCRQVNVTQLDGNENLIRDFLFQNFKEEGTVVVGG
	: ***: .: .* .:.:* . : .: : ** * .
	_/03
BCVspikepro	YLNTTLLLNGYYPTSGSTYRNMALKGTLLLSTLWFKPPFLSDFINGÍFAKVKNTKVIKNG
HCVspikepro	YLNTTLLLNGYYPTSGSTYRNMALKGTLLLSRLWFKPPFLSDFINGIFAKVKNTKVIKKG
CRCVspikepr	YLNTTLLLNGYYPTSGSTYRNMALKGTLLLSTLWFKPPFLSDFIDGVFAKVKNTKVIKDG
HEVspikepro	${\tt YLNTTLLLNGYYPISGATFRNVALKGTRLLSTLWFKPPFLSPFNDGIFAKVKNSRFSKHG}$
CECVspikepr	${\tt YYPTEVWYNCSRTATTTAYEYFSNIHAFYFDMEAMENSTGNARGKPLLFHVHGEPVSV}$
	* * : * . : ::: . : : :: : :
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BCVspikepro	VMYSEFPAITIGSTFVNTSYSVVVQPHTTNLDNKLQGLLEISVCQYTMCEYPHTICHPNL
HCVspikepro	VMYSEFPAITIGSTFVNTSYSVVVQPHTTNLDNKLQGLLEISVCQYTMCEYPHTICHPNL
CRCVspikepr	VVYSEFPAITIGSTFVNTSYSVVVQPHTTNLDNKLQGLLEISVCQYTMCDYPHTMCHPNL
HEVspikepro	VIYSEFPÄITIGSTFVNTSYSIVVKPHTSFINGNLQGFLQISVCQYTMCEYPQTICHPNL
CECVspikepr	IIYISYRDDVQHRPLLKHGLVCITESRNIDYN-SFTSSQWNSICTGNDRKIPFSVIPTDN
	::* .:::: . : .: .: .: .: .: .:
	210
BCVspikepro	GNŔRIELWHWDTGVVŚCLYKRNFTYDVNADYLYFHFYQEGGTFYAYFTDTGVVT
HCVspikepro	GNRRVELWHWDTGVVSCLYKRNFTYDVNADYLYFHFYQEGGTFYAYFTDTGVVT
CRCVspikepr	GNKRIELWHWDTGVVPCLYKRNFTYDVNADYLYSHFYQEGGTFYAYFTDTGVVT
HEVspikepro	GNQRIELWHHDTDVVSCLYRRNFTYDVNADYLYFHFYQEGGTFYAYFTDTGFVT
CECVspikepr	GTKIYGLEWNDEFVTAYISGRSYNWNINNNWFNNVTLLYSRSSTATWQHSAAYVYQGVSN
	*.: * * *: *.:.::* . **: . * :. *
	235
BCVspikepro	KFLFŃVYLGTVLSHYYVMPLTCNSAMTLEYWVTPLTŚKQYLLAFNQDGVIF
HCVspikepro	KFLFNVYLGTVLSHYYVLPLTCNSAMTLEYWVTPLTSKQYLLAFNQDGVIF
CRCVspikepr	KFLFHVYLGTVLSHYYVMPLTCNSAMTLEYWVTPLTFKQYLLAFNQDGVIF
HEVspikepro	KFLFKLYLGTVLSHYYVMPLTCDSALSLEYWVTPLTTRQFLLAFDQDGVLY
CECVspikepr	FTYYKLNNTNGLKTYELCEDYEYCTGYATNIFAPTVGGYIPDGFSFNNWFLLTNSSTFVS



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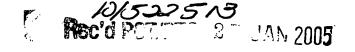
BCVspikepro	NAVDCKSDFMSEIKCKTLSIAPSTGVYELNGYTVQPIADVYRR-IPNLPDCNIEAWLNDK
HCVspikepro	NAVDCKSDFMSEIKCKTLSIAPSTGVYELNGYTVQPIADVYRR-IPNLPDCNIEAWLNDK
CRCVspikepr	NAVDCKSDFMSEIKCKTLSIAPSTGVYELNGYTVQPIADVYRR-IPNLPDCNIEAWLNDK
HEVspikepro	HAVDCASDFMSEIMCKTSSITPPTGVYELNGYTVQPVATVYRR-IPDLPNCDIEAWLNSK
CECVspikepr	GRFVTNQPLLVNCLWPVPSFGVAAQEFCFEGAQFSQCNGVFLNNTVDVIRFNLNFTADVQ
	:::: . *: .: :::* *: . :: ::: ::
	388
BCVspikepro	SVPSPLNWERKTFSNCNFNMSSLMSFIQADSFTCNNIDAAKIYGMCFSSITIDK
HCVspikepro	SVPSPLNWERKTFSNCNFNMSSLMSFIQADSFTCNNIDAAKIYGMCFSSITIDK
CRCVspikepr	SVPSPLNWERKTFSNCNFNMSSLMSFIQADSFTCNNIDAAKIYGMCFFSITIDK
HEVspikepro	TVSSPLNWERKIFSNCNFNMGRLMSFIQADSFGCNNIDASRLYGMCFGSITIDK
CECVspikepr	SGMGATVFSLNTTGGCILEISCYNDIVSESSFYSYGEIPFGVTDGPRYCYVLYNGTALKY
	: :.:* :::** . *: ::. ::.
	407 436 440 447
BCVspikepro	FAIPNGRKVDLQLGNLGYLQSFNYRIDTTATSCQLYYNLPAAN-VSVSRFNPSTWNRRFG
HCVspikepro	FAIPNGRKVDLQLGNLGYLQSFNYRIDTTATSCQLYYNLPAAN-VSVSRFNPSTWNRRFG
CRCVspikepr	FAIPNGRKVDLQMGNLGYLQSFNYRIDTTATSCQLYYNLPASN-VSISRFNPSIWNRRFG
HEVspikepro	FAIPNSRKVDLQVGKSGYLQSFNYKIDTAVSSCQLYYSLPAAN-VSVTHYNPSSWNRRYG
CECVspikepr	FGTLPPSVKEIAISKWGQFYINGYNFFSTFPIDCISFNLTTGDSGAFWTIAYTSYTEALV
	*. ::::: *:: .*:::: . :::*:::: : ::::::::
	501
BCVspikepro	fteqsvfkpqpvgvftdhdvvyaqhcfkaptnfcpckldgslcvgsgsgidagyknsgig
HCVspikepro	FTEQSVFKPQPVGVFTHHDVVYAQHCFKAPTNFCPCKLDGSLCVGNGPGIDAGYKNSGIG
CRCVspikepr	FTEQSVFKPQPVGVFTDHDVVYAQHCFKAPTNFCPCKLNGSLCVGSGFGIDAGYKNSGIG
HEVspikepro	FINQSFGSRGLHDAVYSQQCFNTPNTYCPCRTSQCIGGAGTG
CECVspikepr	QVENTAIKKVTYCNSHINNIKCSQLTANLQNGFYPVASSEVGLVNKSVVLLPSFYSHTSV
	::: :* : : * :.
	⁵²⁵ ₁ 528
BCVspikepro	TCPAGTNYLTCHNAÁQCNCLCTPDPITSKSTGPYKCPQTKYLVGIGEHCSGLAIKS
HCVspikepro	TCPAGTNYLTCHNAAQCDCLCTPDPITSKSTGPYKCPQTKYLVGIGEHCSGLAIKS
CRCVspikepr	TCPAGTNYLTCYNANQCDCLCTPDPILSKSTGPYKCPQTKYLVGIGEHCSGLAIKS
HEVspikepro	TCPVGTTVRKCFAAVTNATKCTCWCQPDPSTYKGVNAWTCPQSKVSIQPGQHCPGLGLVE
CECVspikepr	NITIDLGMKRSGYGQPIASTLSNITLPMQDNNTDVYCIRSNQFSVYVHSTCKSSLWDN

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	582	608
BCVspikepro	DYCGGNPCTCQPQAFLGWSVDSCLQGDRCN-	-ifanfilhdvnsgttcstdlqksntdii
HCVspikepro	DYCGGNPCTCQPQAFLGWSVDSCLQGDRCN-	-IFANFILHDVNSGTTCSTDLQKSNTDII
CRCVspikepr	DYCGGNPCTCQPKAFLGWSVDSCLQGDRCN-	-IFANFILHGVNSGTTCSTDLQKSNTDII
HEVspikepro	DDCSGNPCTCKPQAFIGWSSETCLQNGRCN-	-IFANFILNDVNSGTTCSTDLQQGNTNIT
CECVspikepr	NFNQDCTDVLYATAVIKTGTCPFSFDKLNNY	LTFNKLCLSLNPTGANCKFDVAARTRTNE
	: *.: *	* :: * :*:.*. *: .
BCVspikepro	LGVCVNYDLYGITGQGIFVEVNATYYNSWQN	LLYDSNGNLYGFRDYLTNRTFMIRSCYSG
HCVspikepro	LGVCVNYDLYGITGQGIFVEVNAPYYNSWQN	LLYDSNGNLYGFRDYLTNRTFMIRSCYSG
CRCVspikepr	LGVCVNYDLYGITGQGIFVEVNATYYNSWQN	LLYDSNGNLYGFRDYLTNRTFMIRSCYSG
HEVspikepro	TDVCVNYDLYGITGQGILIEVNATYYNSWQN	LLYDSSGNLYGFRDYLSNRTFLIRSCYSG
CECVspikepr	QVVRSLYVIYEEGDNIVGVPSDNSGLHDLSV	LHLDSCTDYNIYGRTGVGIIRQTNST
	* *:* .:::::	* ** : * :**. *
	692 695	
BCVspikepro	RVSAAFHANSSEPALLFRNIKCNYVFNNTLS	RQLQPINYFDSYLGCVVNADNSTSSAVQT
HCVspikepro	RVSAAFHANSSEPALLFRNIKCSYVFNNTLS	RQLQPINYFDSYLGCVVNADNSTSSVVQT
CRCVspikepr	RVSAGFHSNSSEPALLFRNIKCNYVFNNTLS	RQLQPINYFDSYLGCVVNADNSTSSSVQT
HEVspikepro	RVSAVFHANSSEPALMFRNLKCSHVFNYTIL	RQIQLVNYFDSYLGCVVNAYNNTASAVST
CECVspikepr	ILSGLHYTSLSGDLLGFKNVSDGVVYSVTPC	:DVSAQAAVIDGAIVGAMTSINSELLGLTH
	:*::. * * *:*: *:. * 757 758 763 769	:*. : .:.: *. : _786
BCVspikepro	CDLTVGSGYCVDYSTKRRSRRAITTGYRFTN	FEPFTVNSVNDS
HCVspikepro	CDLTVGSGYCVDYSTKRRSRRAITTGYRFTN	FEPFTVNSVNDS
CRCVspikepr	CDLTVGSGYWGDYSTQRRSRRTITTGYRFTN	FEPFTVNPVNDS
HEVspikepro	CDLTVGSGYCVDYVTALRSRRSFTTGYRFTN	FEPFAANLVNDS
CECVspikepr	WTTTPNFYYYSIYNTTNERTRGTAIDSNDVD	CEPIITYSNIGVCKNGALVFINVTHSDGD
	792 , 8	**: · · · · · · · · · · · · · · · · · ·
BCVspikepro	LÉPVGGLYEIQIPSEFTIGNMEEFIQISSPK	(VTIDCSAFVCGDYAACKSQLVEYGSFCDN
HCVspikepro	LEPVGGLYEIQIPSEFTIGNMEEFIQTSSPK	(VTIDCSAFVCGDYAACKSQLVEYGSFCDN
CRCVspikepr	LHPVGGLYEIQIPSEFTIGNMEEFIQTRSPK	(VTIDCPVFVCGDYAACKSQLVEYGSFCDN
HEVspikepro	IEPVGGLYEIQIPSEFTIGNLEEFIQTSSPK	(VTIDCATFVCGDYAACRQQLAEYGSFCEN
CEÇVspikepr	VQPIS-TGNVTIPTNFTISVQVEYIQVYTTE	PVSIDCSRYVCNGNPRCNKLLTQYVSACQT
	:.*:. :: **::***. *:** :.	*:***. :** * *.:* * *:.

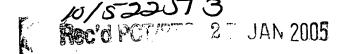


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887 INAILTEVNELLDTTQLQVANSLMNGVTLSTKLKDGVNFNVDDIN-----FSPVL BCVspikepro INAILTEVNELLDTTOLOVANSLMNGVTLSTKLKDGVNFNVDDIN-----FSPVL **HCVspikepro** INAILTEVNELLDTTQLQVANSLMNGVTLSTKLKDGFNFNVDDIN-----FSPVL CRCVspikepr HEVspikepro INAILIEVNELLDTTQLQVANSLMNGVTLSTKIKDGINFNVDDIN-----FSSVL 1EQALAMSASLENMEVDSMLFVSENALKLASVEAFNSTEHLDPIYKEWPN1GGSWLGGLK CECVspikepr *.:.*:: . . ::* * *-9*33 GCLGSDCNKVSSRSAIEDLLFSKVKLSDVG-FVEAYNNCTGGAEIRDLICVQSYNGIKVL BCVspikepro GCLGSACNKVSSRSAIEDLLFSKVKLSDVG-FVEAYNNCTGGAEIRDLICVQSYNGIKVL **HCVspikepro** GCLGSECNKVSSRSAIEDLLFSKVKLSDVG-FVDAYNNCTGGAEIRDLICVQSYNGIKVL CRCVspikepr HEVspikepro GCLGSECNRASTRSAIEDLLFDKVKLSDVG-FVQAYNNCTGGAEIRDLICVQSYNGIKVL DILPSHNSKRKYRSAIEDLLFDKVVTSGLGTVDEDYKRCTGGYDIADLVCAQYYNGIMVL CECVspikepr 977 PPLLSENQISGYTLAATŚASLFPPWS-AAAGVPFYLNVQYRINGIGVTMDVLŚQNQKLIA BCVspikepro PPLLSVNQISGYTLAATSASLFPPWS-AAAGVPFYLNVQYRINGIGVTMDVLSQNQKLIA **HCVspikepro** PPLLSENQISGYTLAATFASLFPPWS-AAAGVPFYLNVQYRINGIGVTMDVLTQNQKLIS CRCVspikepr PPLLSENOISGYTSAATAASLFPPWT-AAAGVPFYLNVQYRINGLGVTMDVLSQNQKLIA HEVspikepro CECVspikepr PGVANDDKMTMYTASLAGGIALGALGGGAVAIPFAVAVQARLNYVALQTDVLNKNQQILA * : . :::: ** : : . : . .*..:** : ** *:* :.: ***.:**:::: 1063 NAFNNALDAIQEGFDATN------SALVKIQAVVNANAEALNNLLQQLSNRF BCVspikepro NAFSNALDAIQEGFDATN-------SALVKIQAVVNANAEALNNLLQQLSNRF **HCVspikepro** CRCVspikepr NAFNNALDAIOEGFDATN------SALVKIQAVVNANAEALNNLLQQLSNKF SAFNNALDSIOEGFDATN------SALVKIQAVVNANAEALNNLLQQLSNRF HEVspikepro NAFNQAIGNITQAFGKVNDAIHQTSQGLATVAKALAKVQDVVNTQGQALSHLTVQLQNSF CECVspikepr .**.*:* ***::.:**.:* **.* .**.:*:. * :.*. .* GAISSSLQEILSRLDALEAQAQIDRLINGRLTALNAYVSQQLSDSTLVKFSAAQAMEKVN BCVspikepro GAIGSSLQEILSRLDALEAQAQIDRLINGRLTALNAYVSQQLSDSTLVKFSAAQAMEKVN **HCVspikepro** CRCVspikepr GAISASLQEILSRLDALEAQAQIDRLINGRLTALNAYVSQQLSDSTLVKFSAAQAMEKVN GAISASLQEILSRLDALEAKAQIDRLINGRLTALNAYVSQQLSDSTLVKFSAAQAIEKVN HEVspikepro CECVspikepr QAISSSISDIYNRLDELSADAQVDRLITGRLTALNAFVSQTLTRQAEVRASRQLAKDKVN



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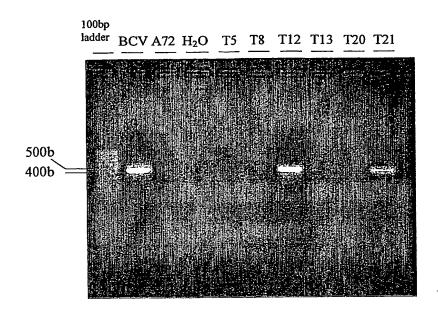
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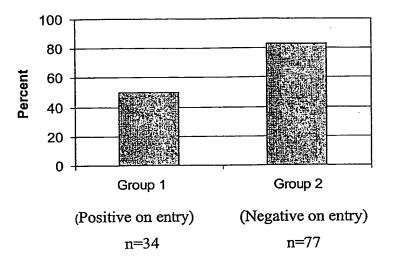
BCVspikepro	ECVKSQSSRINFCGNGNHIISLVQNAPYGLYFIHFSYVPTKYVTAKVSPGLCIAGDRGIA
HCVspikepro	ECVKSQSSRINFCGNGNHIISLVQNAPYGLYFIHFSYVPTKYVTAKVSPGLCIAGDRGIA
CRCVspikepr	ECVKSQSSRINFCGNGNHIISLVQNAPYGLYFIHFSYVPTKYVTAKVSPGLCIAGDRGIA
HEVspikepro	ECVKSQSSRINFCGNGNHIISLVQNAPYGLYFIHFSYVPTKYVTAKVSPGLCIAGDIGIS
CECVspikepr	ECVRSQSQRFGFCGNGTHLFSLANAAPNGMVFFHTVLLPTAYETVTAWSGICASDGDRTF
	:.*:.****.*::**.: ** *: *: *: ** * **:* :
BCVspikepro	PKSGYFVNVNNTWMFTGSGYYYPEPITGNNVVVMSTCAVNYTKAPDVMLNISTP
HCVspikepro	PKSGYFVNVNNTWMFTGSGYYYPEPITGNNVVVMSTCAVNYTKAPDVMLNISTP
CRCVspikepr	PKSGYFVNVNNTWMFTGSGYYYPEPITGNNVVVMSTCAVNYTKAPDVMLNISTP
HEVspikepro	PKSGYFINVNNSWMFTGSGYYYPEPITQNNVVVMSTCAVNYTKAPDLMLNTSTP
CECVspikepr	GLVVKDVQLTLFRNLDDKFYLTPRTMYQPRAATSSDFVQIEGCDVLFVNATVIDLPSIIP
,	: * *::::: * * * * .:.* :. * * :.:* : *
	1256 1257
BCVspikepro	NLPDFKEELDQWFKNQTSVAPDLSLDYINVTFLDLQDEMNRLQE
HCVspikepro	NLHDFKEELDQWFKNQTSVAPDLSLDYINVTFLDLQDEMNRLQE
CRCVspikepr	NLPDFKEELDQWFKNQTLMAPDLSLDYINVTFLDLQDEMNRLQE
HEVspikepro	NLPDFKEELYQWFKNQSSLAPDLSFDYINVTFLDLQDEMNRLQE
CECVspikepr	DYIDINQTVQDILENYRPNWTVPELTIDIFNATYLNLTGEIDDLEFRSEKLHNTTVELAI
	: *::::::::::::::::::::::::::::::::::::
BCVspikepro	AIKVLNQSYINLKDIGTYEYYVKWPWYVWLLIGLAGVAMLVLLFFICCCTGCGTSCFKKC
HCVspikepro	AIKVLNQSYINLKDIGTYEYYVKWPWYVWLLIGFAGVAMLVLLFFICCCTGCGTSCFKIC
CRCVspikepr	AIKVLNHSYINLKDIGTYEYYVKWPWYVWLLIGLAGVAMLVLLFFICCCTGCGTSCFKKC
HEVspikepro	AIKVLNHSYINLKDIGTYEYYVKWPWYVWLLICLAGVVMLVLLFFICCCTGCGTSCFKKC
CECVspikepr	LIDNINNTLVNLEWLNRIETYVKWPWYVWLLIGLVVVFCIPLLLFCCCSTGCCG-CIGCL
	.::::**::. * ********* :. * : **:* **.** *:
BCVspikepro	GGCCDDYTGHQELVIKTSHDD
HCVspikepro	GGCCDDYTGHQELVIKTSHDD
CRCVspikepr	GGCCDDYTGHQELVIKTSHDD
HEVspikepro	GGCFDDYTGHQEFVIKTSHDD
CECVspikepr	GSCCHSICSRRQFENYEPIEKVHVH
	.::::

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FIGURE 13

TATCGCAGCC	TTACTTTTGT	TAATGTACCA	TATGTTTATA	ATGGCTCTGC	ACAATCTACA	60
GCTCTTTGTA	AATCTGGTAG	TTTAGTTCTT	AATAACCCTG	CATATATAGC	TCGTGAAGCT	120
AATTTTGGGG	ATTATTATTA	TAAGGTTGAA	GCTGATTTCT	ATTTGTCAGG	TTGTGACGAG	180
TATATCGTAC	CACTTTGTAT	TTTTAACGGC	AAGTTTTTGT	CGAATACAAA	GTATTATGAT	240
GATAGTCAAT	ATTATTTTAA	TAAAGACACT	GGTGTTATTT	ATGGTTTCAA	TTCTACTGAA	300
ACCATTAACA	CTGGTTTTGA	TTTTAATTGT	CATTATTTAC	TTTTACCCTC	TGGTAATTAT	360
TTAGCCATTT	CAAATGAGCT	ATTGTTAACT	GTTCCTACGA	AAGCAATCTG	TCTTAATAAG	420
CGTAAGGATT	TTACGCCTGT	ACAGGTTGTT	GACTCGCGGT	GGAACAATGC	CAGGCAGTCT	480
GATAACATGA						497

YRSLTFVNVP	YVYNGSAQST	ALCKSGSLVL	NNPAYIAREA	NFGDYYYKVE	ADFYLSGCDE	60
YIVPLCIFNG	KFLSNTKYYD	DSQYYFNKDT	GVIYGFNSTE	TINTGFDFNC	HYLLLPSGNY	120
	VPTKAICLNK					165

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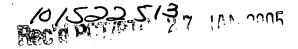


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FIGURE 15 (Page 1 of 2)

CRCV BCV	TATCGCAGCCTTACTTTTGTTAATGTACCATATGTTTATAATGGCTCTGCACAATCTACA TATCGCAGCCTTACTTTTGTTAATGTACCATATGTTTATAATGGCTCTGCACAATCTACA
OC43	TATCGCAGCCTTACTTTTGTTAATGTACCATATGTTTATAATGGCTCTGCACAATCTACA
HECV	TATCGCAGCCTTACTTTTGTTAATGTACCATATGTTTACAATGGCTCTGCACAATCTACA
HEV	TATCGCAGTCTTACTTTAGTTAATGTGCCATACGTTTACAATGGGTCAGCTCAACCCACC
	****** ****** ****** ***** **** **** ****
CRCV	GCTCTTTGTAAATCTGGTAGTTTAGTTCTTAATAACCCTGCATATATAGCTCGTGAAGCT
BCV	GCTCTTTGTAAATCTGGTAGTTTAGTTCTTAATAACCCTGCATATATAGCTCGTGAAGCT
OC43	GCTCTTTGTAAATCTGGTAGTTTAGTCCTTAATAACCCTGCATATATAGCTCCTCAAGCT
HECV	GCTCTTTGTAAATCTGGTAGTTTAGTTCTTAATAACCCTGCATATATAGCTCGTGAAGCT
HEV	GCACTTTGTAAGTCTGGCAGTTTAATTCTTAACAATCCTGCATATATAGCCCGTGAGGCT
1127	** ****** **** ***** * **** * * *******
CRCV	AATTTTGGGGATTATTATTATAAGGTTGAAGCTGATTTCTATTTGTCAGGTTGTGACGAG
BCV	AATTTTGGGGATTATTATTATAAGGTTGAAGCTGATTTTTATTTGTCAGGTTGTGACGAG
OC43	AACTCTGGGGATTATTATTATAAGGTTGAAGCTGATTTTTATTTGTCAGGTTGTGACGAG
HECV	AATTTTGGGGATTATTATTATAAGGTTGAAGCTGATTTTTATTTGTCAGGTTGTGACGAG
HEV	AATGTGGGTGATTATTATTATAAGTCTGAAGCAGATTTTTCTCTCTC
	** ** ******** ***** * * * * * * * * * *
CRCV	TATATCGTACCACTTTGTATTTTTAACGGCAAGTTTTTTGTCGAATACAAAGTATTATGAT
BCV	TATATCGTACCACTTTGTATTTTTAACGGCAAGTTTTTTGTCGAATACAAAGTATTATGAT
OC43	TATATCGTACCACTTTGTATTTTTAACGGCAAGTTTTTGTCGAATACAAAGTATTATGAT
HECV	TATATCGTACCACTTTGTATTTTTAACGGCAAGTTTTTGTCGAATACAAAGTATTATGAT
HEV	TATATCGTACCACTTTGTATTTTTAATGGCAAGTTTTTTGTCGAATACAAAGTATTATGAT

CRCV	GATAGTCAATATTATTTAATAAAGACACTGGTGTTATTTAT
BCV	GATAGTCAATATTATTTTAATAAAGACACTGGTGTTATTTAT
OC43	GATAGTCAATATTATTTAATAAAGACACTGGTGTTATTTAT
HECV	GATAGTCAATATTATTTAATAAAGACACTGGTGTTATTTAT
HEV	GATAGTCAATATTATTTAATAAAGACACTGGTGTTATTTAT
	********* ***** *** *** *** ***
	•
CRCV	ACCATTAACACTGGTTTTGATTTTAATTGTCATTATTTACTTTTACCCTCTGGTAATTAT
BCV	ACCATTACCACTGGTTTTGATTTTAATTGTCATTATTTAGTTTTACCCTCTGGTAATTAT
OC43	ACCATTACCACTGGTTTTGATCTTAATTGTTATTTAGTTTTACCCTCTGGTAATTAT
HECV	ACCATTACCACTGGTTTTGATTTTAATTGTCATTATTTAGTTCTACCCTCTGGCAATTAT
HEV	ACCATTACCACTGGTTTTGATTTTAATTGTCATTATTTAGTTCTACCCTCTGGTAATTAT
-	****** ******* ****** ***** ****** ** *
CRCV	TTAGCCATTTCAAATGAGCTATTGTTAACTGTTCCTACGAAAGCAATCTGTCTTAATAAG
BCV	TTAGCCATTTCAAATGAGCTATTGTTAACTGTTCCTACGAAAGCAATCTGTCTTAATAAG
OC43	TTAGCCATTTCAAATGAGCTATTGTTAACTGTTCCTACGAAAGCAATCTGTCTTAATAAG
HECV	TTAGCCATTTCAAATGAGCTATTGTTAACTGTTCCTACTAAAGCAATCTGTCTTAATAAG
HEV	CTAGCCATTTCAAATGAGCTATTGTTAACTGTTCCTACTAAAGCAATCTGTCTTAATAAG



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CRCV	CGTAAGGATTTTACGCCTGTACAGGTTGTTGACTCGCGGTGGAACAATGCCAGGCAGTCT
BCV	CGTAAGGATTTTACGCCTGTACAGGTTGTTGACTCTCGGTGGAACAATGCCAGGCAGTCT
OC43	CGTAAGGATTTTACGCCTGTACAGGTTGTTGATTCGCGGTGGAACAATGCCAGGCAGTCT
HECV	CGTAAGGATTTTACGCCTGTACAGGTTGTTGACTCGCGGTGGAACAATGCCAGGCAGTCT
HEV	CGTAAGGTTTTTACGCCTGTACAGGTTGTTGATTCGCGGTGGAACAATGCCAGGCAATCT
	****** ************* ** ** **********
-	
CRCV	GATAACATGACGGCGGT
	GATAACATGACGGCGGT GATAACATGACGGCGGT
CRCV	••••••••••••••••••••••••••••••••••••••
CRCV BCV	GATAACATGACGGCGGT
CRCV BCV OC43	GATAACATGACGGCGGT GATAACATGACGGCGGT

CRCV BCV OC43 HECV HEV	YRSLTFVNVPYVYNGSAQSTALCKSGSLVLNNPAYIAREANFGDYYYKVEADFYLSGCDE YRSLTFVNVPYVYNGSAQSTALCKSGSLVLNNPAYIAREANFGDYYYKVEADFYLSGCDE YRSLTFVNVPYVYNGSAQSTALCKSGSLVLNNPAYIAPQANSGDYYYKVEADFYLSGCDE YRSLTFVNVPYVYNGSAQSTALCKSGSLVLNNPAYIAREANFGDYYYKVEADFYLSGCDE YRSLTLVNVPYVYNGSAQPTALCKSGSLILNNPAYIAREANVGDYYYKSEADFSLSGCDE *****:*******************************
CRCV BCV OC43 HECV HEV	YIVPLCIFNGKFLSNTKYYDDSQYYFNKDTGVIYGFNSTETINTGFDFNCHYLLLPSGNY YIVPLCIFNGKFLSNTKYYDDSQYYFNKDTGVIYGLNSTETITTGFDFNCHYLVLPSGNY YIVPLCIFNGKFLSNTKYYDDSQYYFNKDTGVIYGLNSTETITTGFDLNCYYLVLPSGNY YIVPLCIFNGKFLSNTKYYDDSQYYFNKDTGVIYGLNSTETITTGFDFNCHYLVLPSGNY YIVPLCIFNGKFLSNTKYYDDSQYYFNKDTGVIYGLNSTETITTGFDFNCHYLVLPSGNY ************************************
CRCV BCV OC43 HECV HEV	LAISNELLLTVPTKAICLNKRKDFTPVQVVDSRWNNARQSDNMTA LAISNELLLTVPTKAICLNKRKDFTPVQVVDSRWNNARQSDNMTA LAISNELLLTVPTKAICLNKRKDFTPVQVVDSRWNNARQSDNMTA LAISNELLLTVPTKAICLNKRKDFTPVQVVDSRWNNARQSDNMTA LAISNELLLTVPTKAICLNKRKVFTPVQVVDSRWNNARQSDNMTA ************************************

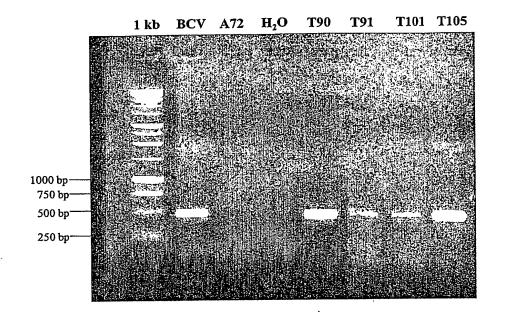
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